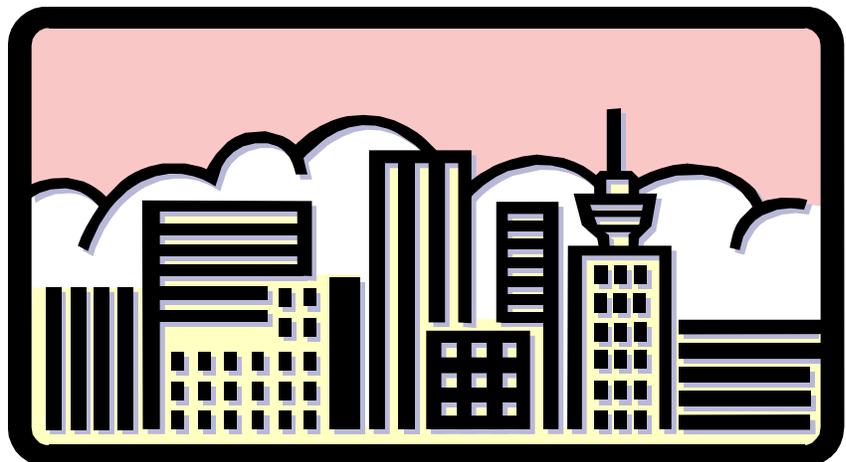


2005
Architectural
Coatings
Survey
Draft Report

September 2006



**State of California
California Environmental Protection Agency
Air Resources Board**

**2005 Architectural Coatings Survey
Draft Report**

September 2006

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This report has been reviewed and approved for publication by the Air Resources Board (ARB, Board). Approval does not signify that the contents reflect the views and policies of the ARB, nor does mention of any company constitute endorsement. This report is a direct reflection of the California sales data (for calendar year 2004) submitted by the companies that responded to the "ARB Architectural Coatings Survey" conducted in 2005.

Acknowledgements

The Air Resources Board would like to thank the companies that responded to our 2005 survey. (See Chapter 2 for a list of survey respondents.)

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LIST OF ACRONYMS

APCD	Air Pollution Control District
AQMD	Air Quality Management District
ARB, Board	Air Resources Board
ASTM	American Society for Testing and Materials
Cal/EPA	California Environmental Protection Agency
CAS#	Chemical Abstract Service number
dba	Doing Business As
MIR	Maximum Incremental Reactivity
NA	Not Applicable
ORGSOL	Organic Solvent Regulation Study Group
PD	Protected Data
PSU	Primer, Sealer, Undercoater
QDPSU	Quick Dry Primer, Sealer, Undercoater
U.S. EPA	United States Environmental Protection Agency
SB	Solvent-borne
SCAQMD	South Coast Air Quality Management District
SCM	Suggested Control Measure
SWA	Sales-Weighted Average
VOC	Volatile Organic Compound
WB	Water-borne

Chapter 1 -- Introduction and Background

This report presents results from the 2005 Architectural Coatings Survey conducted by the California Air Resources Board (ARB or Board) for coatings sold in California during 2004. This is the eighth survey of this type conducted by the ARB for the purpose of estimating emissions from architectural coatings. For purposes of this survey, architectural coatings are defined as follows:

“Architectural Coating: A coating to be applied to stationary structures or their appurtenances at the site of installation, to portable buildings at the site of installation, to pavements, or to curbs. Coatings applied in shop applications or to non-stationary structures such as airplanes, ships, boats, railcars, and automobiles, and adhesives are not considered architectural coatings.”

Architectural coatings do not include aerosol coating products.

Historically, the ARB has conducted architectural coating surveys every four or five years. Previous surveys were conducted in 1976, 1981, 1985, 1989, 1993, 1998, and 2001. The information collected in the surveys is used to help the ARB and local air pollution control districts (APCDs) or air quality management districts (AQMDs) track the volatile organic compound (VOC) emissions from architectural coatings. The surveys are also used in the development of regulations or rules to reduce the VOC emissions from these products.

The local districts have the primary responsibility for control of air pollution from stationary sources, such as the application of coatings. The local districts develop, adopt, and enforce rules and regulations under their jurisdiction to achieve and maintain the state and federal ambient air quality standards. The local districts have regulated architectural coatings in California since the 1970s.

The ARB’s role over the years has been to provide technical assistance to the districts in the form of industry surveys and research. To track the emission contributions of architectural coatings, an inventory was created that is based on the surveys. The ARB has also provided regulatory and policy guidance through the development of a suggested control measure (SCM) for architectural coatings that was first adopted in 1977, and was amended in 1985, 1989, and 2000. ARB staff has begun working on an updated version of the SCM, tentatively scheduled for completion in September 2007.

The 2005 Architectural Coatings Survey

In April 2005, the ARB mailed survey questionnaires to almost **900** companies that potentially sold architectural coating products in California in 2004. Almost half of these companies did not submit data, primarily for the following reasons: they did not have any sales of architectural coatings in California during 2004; they did not manufacture architectural coatings; or their sales were being reported by another company. Approximately **30%** of the companies surveyed did not respond. A total of **197** companies submitted data, including companies that sent in surveys for multiple divisions or subsidiaries. This represents an increase when compared to the previous five ARB surveys (conducted in 2001, 1998, 1993, 1989, 1985), that had an average of 156 companies responding with data. Chapter 2 contains information about the companies that submitted data. ARB is confident that the survey response accurately represents the 2004 sales volume in California, based on comparisons between the survey data and manufacturing data compiled by the U.S. Census Bureau.

The 2005 Architectural Coatings survey requested 2004 California sales information for 52 coating categories. For each of the coating categories, the survey collected the following information:

- sales in gallons, broken down by sales in small containers (sizes of 1 quart or less) and large containers (greater than 1 quart);
- substrate description;
- type of application (interior/exterior/dual);
- vehicle technology (solvent-borne or water-borne);
- resin type;
- component description (single- or multi-component);
- coating density;
- weight percent for solids, volatiles, water, and exempt compounds;
- volume percent for solids, water, and exempt compounds;
- VOC content;
- method for VOC determination (U.S. EPA Method 24 or formulation data); and
- volatile ingredients.

A copy of the survey questionnaire is available in the Appendix. Some manufacturers considered the data provided in the 2004 Architectural Coatings Survey to be trade secret and confidential. To address this concern, but still allow the publishing of survey results, the ARB implemented the historical practice of concealing all sales data values that did not represent at least three companies, otherwise known as the “Three Company Rule.” In addition, this report contains summarized survey data, rather than lists of individual survey responses to further protect confidentiality. Every effort was made to reveal as much of the survey data as possible without compromising the “Three Company Rule.” However, instances did arise where it was necessary to conceal certain portions of the survey results. Throughout this report the term “Protected Data” (or PD) is used to reflect that compliance with the “Three Company Rule” could not be satisfied and the data were concealed.

The 2005 survey responses represent about **111** million gallons of architectural coatings sold in California in 2004, with **88%** of that volume coming from water-borne products and **12%** from solvent-borne products. Emissions from these coatings are approximately 34,700 tons of VOC per year or about **95** tons per day as an annual average, not including emissions from thinning, additives, and equipment cleanup. Water-borne products contribute **48%** of these emissions, while the solvent-borne products contribute **52%**. Survey data were also used to estimate emissions from the following associated activities:

- (1) Using solvent for thinning solvent-borne coatings;
- (2) Using solvent for equipment cleanup after the use of solvent-borne and water-borne coatings; and
- (3) Using additives to enhance the performance of water-borne coatings.

ARB estimates that these three associated activities generate approximately **24** tons per day of VOC emissions. Total estimated average annual emissions are **119** tons per day (**95** tons per day from coatings only and **24** tons per day from thinning/cleanup/additives). More detailed information on sales and emissions data is presented in Chapters 3 and 5, respectively.

Information on VOC content was also collected for all 52 coating categories. Values for VOC content summarized in this report were determined by calculating the sales-weighted average and are available in Chapter 4. The VOC content values appear as VOC Actual and VOC Regulatory. VOC Actual, also known as Material VOC, is a ratio of the weight of volatiles (minus the weight of water and exempt VOCs) per a given volume of coating. VOC Actual is the value used to determine emissions, which are presented in Chapter 5.

The VOC content limit or standard codified in architectural coating regulations is commonly known as VOC Regulatory. VOC Regulatory is a ratio of the weight of VOCs per a given volume of coating with water and exempt VOCs subtracted from both the numerator (weight) and denominator (volume). The original rationale behind the VOC Regulatory value was to provide an equivalent basis for comparing the polluting portion of solvent-borne and water-borne coatings. Also, based on industry comments, it was believed that the VOC Regulatory approach would prohibit coating manufacturers from simply diluting a coating with water in order to meet standards specified in coating regulations.

Reported VOC Regulatory values were compared with VOC limits to determine the complying marketshares for each coating category. Complying marketshare is the percentage of sales volume that is less than or equal to an established VOC limit. Chapter 6 contains complying marketshares based on VOC limits in ARB's 2000 SCM. It also contains complying marketshares based on the South Coast Air Quality Management District's future VOC limits that are scheduled to take effect in or before 2008. Chapter 7 contains charts that provide a graphical view of complying marketshares. The charts plot percent of total sales volume against VOC Regulatory, which illustrates the percent of sales that is at or below the SCM VOC limit for each coating category.

ARB's 2005 Architectural Coatings Survey included the collection of complete volume percent and weight percent data. These data included all of the parameters that are used when calculating VOC Actual and VOC Regulatory. Collection of this information allowed ARB staff to verify reported VOC content values. Chapter 8 contains sales-weighted average values for density, volume percent data, and weight percent data for all survey categories.

The 2005 survey also gathered substrate and resin data. If a coating product was designed for a specific substrate(s), survey respondents were asked to list all of the applicable substrates. Chapter 9 contains a summary of substrate and resin information.

The 2005 Architectural Coatings Survey included the collection of ingredient data for the volatile components of the coating (VOCs, exempt compounds, and water). Speciated data were not collected for the solids portion of the coatings. Chapter 10 contains more information regarding the ingredient data.

Chapter 11, provides a historical comparison using results from all of ARB's Architectural Coatings Surveys.

The final chapter, Chapter 12, provides data analyses for coatings that were included in averaging programs, managed by ARB and the South Coast Air Quality Management District (SCAQMD).

Chapter 2 -- Companies

The 2005 survey was sent to almost **900** companies that potentially sold architectural coating products in California in 2004. Almost half of the companies did not submit data for the following reasons: they did not have any sales of architectural coatings in California during 2004; they did not manufacture architectural coatings; or their sales were to be reported by another company. Approximately **30%** of the companies surveyed did not respond. A total of **197** companies submitted data, including companies that sent in surveys for multiple divisions or subsidiaries. This represents an increase when compared to the previous five ARB surveys (conducted in 2001, 1998, 1993, 1989, 1985), that had an average of 156 companies responding with data.

This chapter includes the following data summaries:

Table 2-1: *Survey Respondents*

Table 2-2: *Top 10 Manufacturers (based on sales volume, but sorted alphabetically)*

Figure 2-1: *Top 10 Manufacturers*

Figure 2-2: *Gross Earnings*

Figure 2-3: *Number of Employees*

Figure 2-4: *Marketing Classification*

Figure 2-5: *Method for Determining California Sales*

Figure 2-6: *Type of Business*

Table 2-1: Survey Respondents

Count	Company Name	Count	Company Name
1	3M Company	41	Davlin Coatings, Inc.
2	Ace Hardware Corporation	42	Dayton Superior
3	Acrymax Technologies Inc.	43	Decosup Inc.
4	Advanced Polymer Technology Corp.	44	Deft, Inc.
5	Aervoe Industries, Inc	45	Degussa Building Systems
6	Aexcel Corporation	46	Dow Corning Corporation
7	Akzo Nobel Coatings	47	Drummond American Corporation
8	Amazon Environmental	48	Duckback Products
9	American Building Restoration Products, Inc	49	Dunn-Edwards
10	American Polymers Corporation DBA Polycoat Products	50	E.I. Dupont de Nemours and Company
11	American Safety Technologies	51	Eco Paint
12	Ameron International	52	Edoco
13	Amteco, Inc	53	Elastomeric Roofing Systems, Inc
14	Andek Corporation	54	Ellis Paint Company
15	APOC	55	Ennis Paint Inc.
16	Arizona Polymer Flooring	56	Epmar Corp.
17	Armstrong-Clark Company	57	Epro Services, Inc.
18	Basic Coatings, Inc.	58	Euclid Chemical Company
19	BayOne Urethane Systems LLC	59	Everest Coatings Inc.
20	Behr Process Corporation	60	EVR-Gard Coatings
21	Benjamin Moore & Co.	61	Faux Effects International, Inc.
22	BonaKemi USA, Inc.	62	Fields Company LLC
23	C.I.M. Industries Inc.	63	Finnaren & Haley Inc.
24	Cal Western Paints, Inc.	64	Flamort Co., Inc.
25	California Products Corporation	65	Flood Company
26	Carboline Company	66	Frazee Industries
27	Carlisle Coatings & Waterproofing Inc.	67	Gaco Western, Inc.
28	Catalina Industries, Inc.	68	Gardner-Gibson
29	Ceilcote USA, Inc	69	Garland Company
30	CGI International, Inc.	70	Gemini Coatings, Inc.
31	CMP Coatings Inc.	71	Glaze 'N Seal Products
32	Color Wheel Paint Co., Inc.	72	Glidden Company (dba: ICI Paints)
33	Colorado Paint Co.	73	Glitsa American, Inc.
34	Conklin Company, Inc.	74	Golden Artist Colors, Inc.
35	Conspec	75	Golden Pacific
36	Contract Coatings Corp.	76	Griggs Paint & Silkscreen of Domcom ENT., INC.
37	Cresset Chemical Company	77	Gulf Coast Paint Mfg.
38	Daly's Inc.	78	Hamilton Coatings
39	Dampney Company, Inc.	79	HARCO Chemical Coatings, Inc.
40	Dap Inc.	80	Henry Company

Table 2-1: Survey Respondents (continued)

Count	Company Name	Count	Company Name
81	Hill Brothers Chemical Company	121	Perma-Chink Systems, Inc.
82	Hillyard Industries, Inc.	122	Pervo Paint Company
83	Hirshfield's Paint Manufacturing	123	Pioneer Eclipse Corporation
84	Honeywell	124	Pioneer Manufacturing Co.
85	Ingels, Inc.	125	Poly-Carb, INC.
86	Insl-x Products Corporation	126	Polymerica, Inc.
87	Insulating Coatings Corporation	127	Ponderosa Paint Co., Inc.
88	Integrity Coatings, Inc.	128	PPG Industries, Inc.
89	International Coatings	129	Preserva Products, Ltd.
90	International Paint LLC/Akzo Nobel Coatings	130	Pride Paint Company
91	ITW Devcon	131	Professional Products of Kansas, Inc.
92	ITW Philadelphia Resins	132	Prosoco, Inc.
93	Jasco Chemical Corp.	133	R.J. McGlennon Co. Inc.
94	JFB Hart Coatings, Inc.	134	Reilly Industries, Inc.
95	Jones-Blair Co.	135	Rockwood Pigments
96	Karnak Corp.	136	Rodda Paint Company
97	Kelley Technical Coatings, Inc.	137	Roman Decorating Products
98	Kelly-Moore Paint Co., Inc.	138	Rudd Company
99	Koppers Inc.	139	Rust-Oleum Corp.
100	Kwal Paint Inc.	140	Samuel Cabot Inc.
101	L & M Construction Chemicals	141	Scotch Paint Corp
102	L.M. Scofield Company	142	Seal-Krete
103	LaPolla Industries, Inc.	143	SEM Products, Inc.
104	Life Paint Company	144	Seymour of Sycamore
105	Milamar Coatings, LLC	145	Sheffield Bronze Paint Corp.
106	Miller Paint Company, Inc.	146	Sherwin-Williams Co.
107	Minuteman International	147	Sierra Corp.
108	Mortex Mfg. Co., Inc.	148	Sigma Coatings USA B.V.
109	Mule-Hide Products Co.	149	Sika Corporation
110	Multicolor Specialties, Inc.	150	Simpson Coatings Group, Inc.
111	National Coatings Co.	151	SINAK Corporation
112	NCH Corporation	152	Siplast, Inc.
113	NoFire Technologies, Inc.	153	Somay Products, Inc.
114	Norton & Son of California	154	Southern Diversified Products, LLC
115	Nox-Crete Products Groups, Inc.	155	Southwest Distributing dba SWD Urethane Co.
116	Nu-Chem Inc.	156	Southwestern Petroleum Corporation
117	Old Masters	157	Specialty Coatings & Chemicals Inc
118	Pacific Polymers International	158	Specialty Construction Brands, Inc.
119	ParexLahabra, Inc.	159	Spectra-Tone Paint Corp.
120	Performance Coatings Inc.	160	SPM Thermoshield Inc.

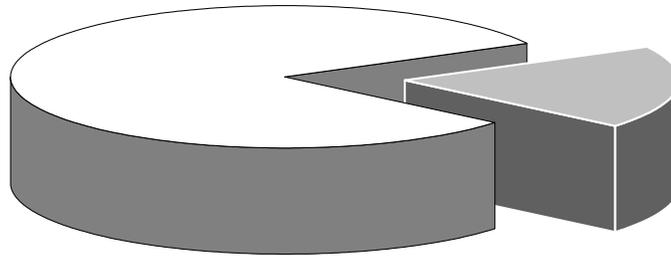
Table 2-1: Survey Respondents (continued)

Count	Company Name	Count	Company Name
161	SR Products	180	United Coatings Manufacturing Co.
162	Star Bronze Company, Inc.	181	United Gilsonite Laboratories
163	StonCor Group, Inc.	182	United States Gypsum Company
164	Sumter Coatings, Inc.	183	US Mix Co.
165	Surface Protection Industries Inc.	184	Valspar Corporation
166	Symons	185	Vanex, Inc.
167	T.J. Ronan Paint Corp.	186	Visions Recycling, Inc.
168	TAMKO Building Products, Inc.	187	Vista Paint Corporation
169	Tapecoat Co.	188	W.C. Richards Co.
170	Tennant Company	189	W.R. Grace & Co. - Conn.
171	Texas Refinery Corp.	190	W.R. Meadows Inc.
172	Textured Coatings of America	191	Waterlox Coatings Corp.
173	ThorWorks Industries, Inc.	192	Wijzonol Bouwverven International B.V.
174	TMT Pathway	193	Willamette Valley Company
175	Tnemec Company Inc.	194	XIM Products
176	Tremco Incorporated	195	Yenkin-Majestic Paint Corporation
177	Trinity Coatings Co.	196	Zinsser Co., Inc.
178	Tropical Asphalt, LLC	197	ZRC Worldwide
179	True Value Manufacturing		

Table 2-2: Top 10 Manufacturers (based on sales volume, but sorted alphabetically)

Company Name
Behr Process Corporation
Benjamin Moore & Co.
Dunn-Edwards
Frazer Industries
Glidden Company (dba: ICI Paints)
Henry Company
Kelly-Moore Paint Co., Inc.
Sherwin-Williams Co.
Valspar Corporation
Vista Paint Corporation

Figure 2-1
Top 10 Manufacturers



Top 10 manufacturers
account for 81% of
total sales

Remaining
manufacturers account
for 19% of total sales

Figure 2-2
Survey Respondents' Gross Earnings

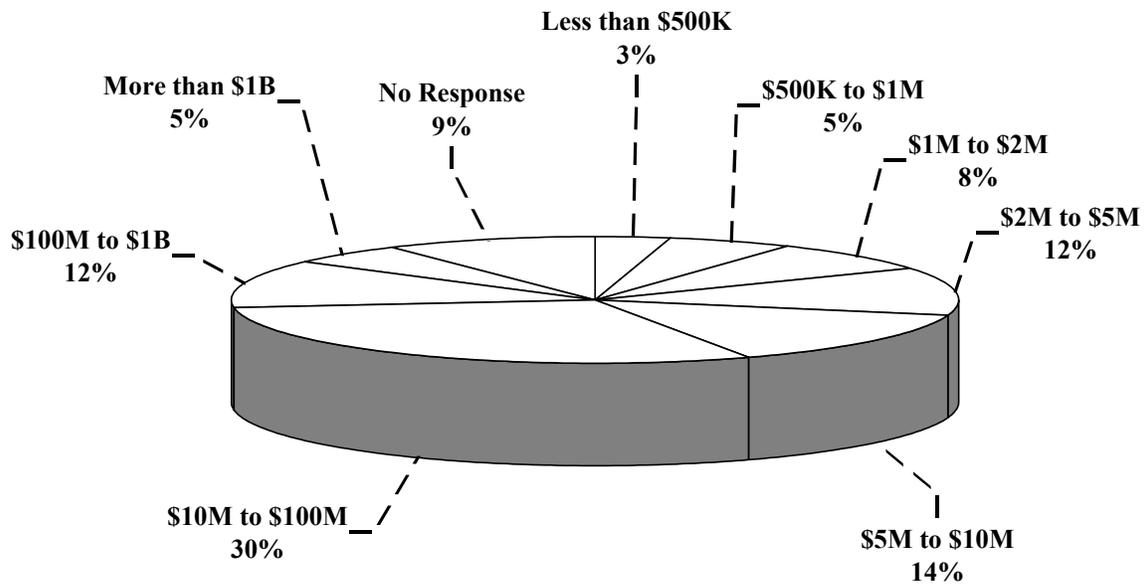
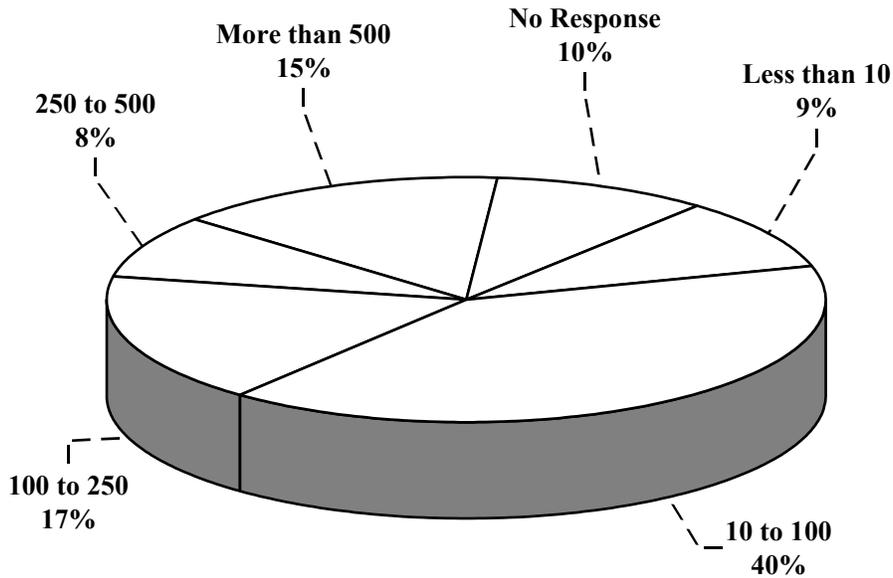
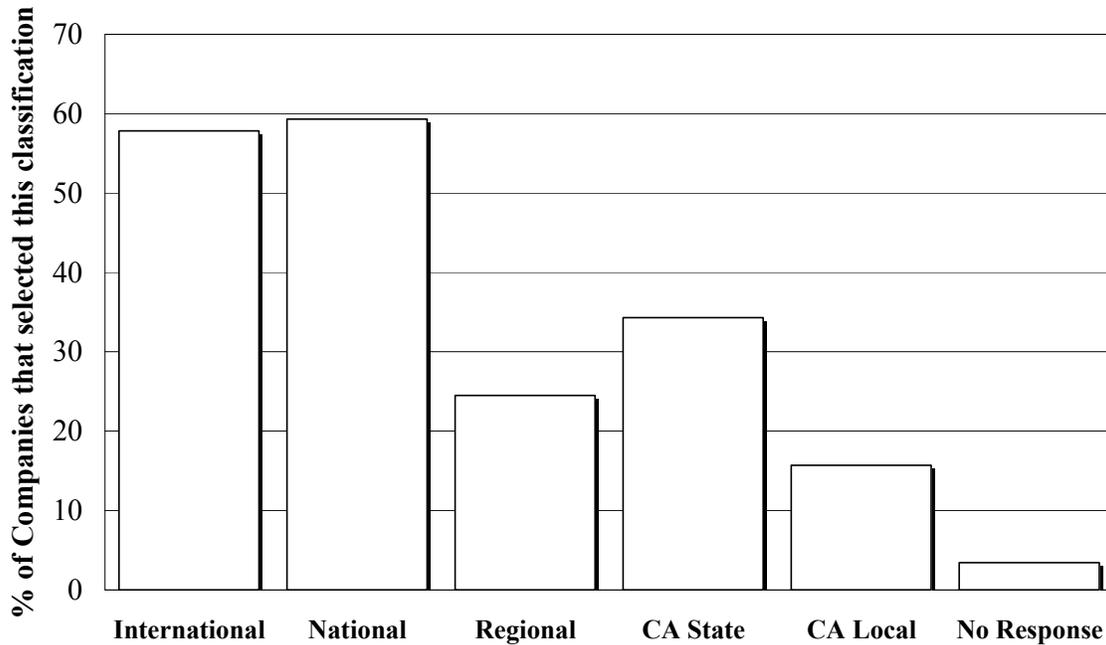


Figure 2-3
Survey Respondents' Number of Employees



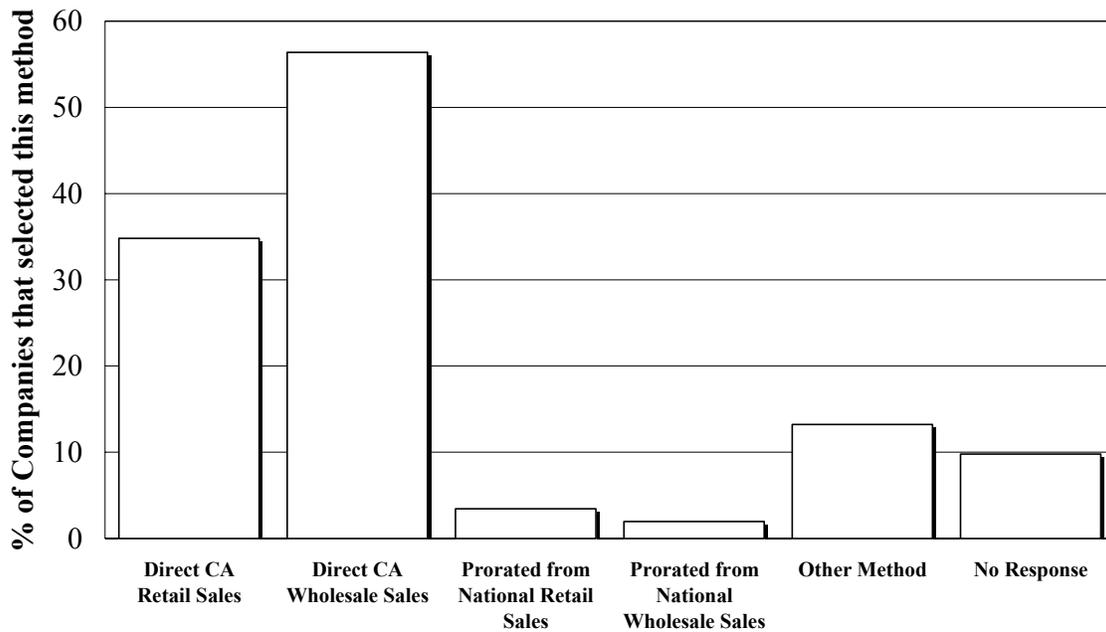
The 2005 survey collected data on marketing classification. Survey respondents were allowed to select multiple classifications (e.g., international and regional) and **52%** of the companies reported more than one classification. Figure 2-4 illustrates the percentage of companies that selected a particular marketing classification. Please note that the total percentage is greater than 100%, because companies could select multiple classifications.

Figure 2-4
Survey Respondents' Marketing Classifications



The 2005 survey collected data on the methods that were used to determine the sales of architectural coatings in California. Survey respondents were allowed to select multiple methods (e.g., direct California wholesale and Other) and **18%** of the companies reported more than one method. Figure 2-5 illustrates the percentage of companies that selected a particular method for determining California sales. Please note that the total percentage is greater than 100%, because companies could select multiple methods.

Figure 2-5
Method for Determining California Sales

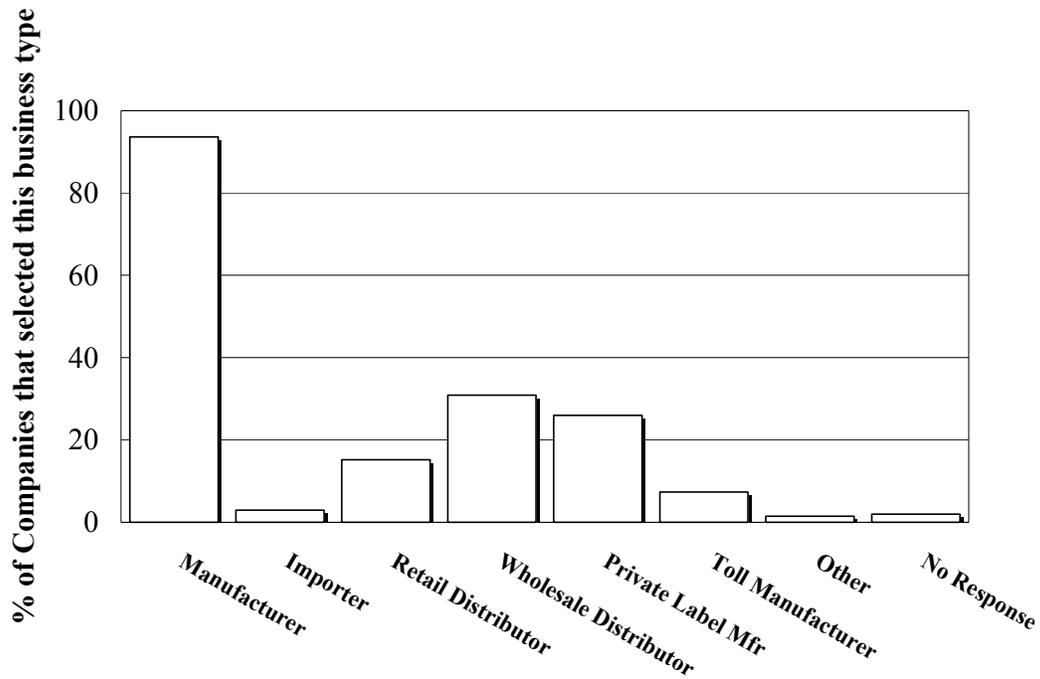


Notes:

Under "Other Method" of determining sales, companies generally reported slight variations of the standard methods based on retail and wholesale sales. In addition, some companies reported direct sales to the end user.

The survey gathered data on the type of business (e.g., manufacturer, wholesale distributor, etc.). Survey respondents were allowed to select multiple descriptions for their business type and **45%** of the companies reported more than one type. Figure 2-6 illustrates the percentage of companies that selected a particular business type. Please note that the total percentage is greater than 100%, because companies could select multiple types.

Figure 2-6
Type of Business



Chapter 3 -- Sales

The 2005 survey responses represent approximately **111** million gallons of architectural coatings sold in California in 2004. To determine the accuracy of these sales figures, we consulted the U.S. Census Bureau's Current Industrial Reports for Paint and Allied Products for calendar year 2004. This report includes nationwide data for shipments of the following categories: architectural coatings; industrial new construction and maintenance paints; and traffic marking paints. Total nationwide shipments in 2004 for these three categories were approximately **916** million gallons, which represents more than a 25% increase from the 2000 value of 727 million gallons. Since California represents 12% of the national population, we assumed that California shipments were approximately equal to 12% of the nationwide total for the above-listed categories or **110** million gallons. We then compared the census data to the sales reported in our survey and found that our survey total is actually greater than the estimate based on census data. Therefore, we feel confident that the survey captured the California sales information adequately.

The reported sales for the survey include products sold to professional paint contractors as well as to homeowners or "do-it-yourselfers". According to an industry survey, professional paint contractors accounted for almost 70% of the architectural coating sales in 2000 for the Western United States¹.

This chapter includes the following data summaries:

Table 3-1: *Sales by Category (sorted by category)*

Table 3-2: *Sales by Category (sorted by volume in descending order)*

Table 3-3: *Sales by Category (based on container size)*

Figure 3-1: *Solvent-borne and Water-borne Sales*

Figure 3-2: *Top 10 Coating Categories*

Figure 3-3: *Sales by Container Size*

¹ Scott Detivaux and Chuck Bangert, "Regional Variation in the Architectural Coatings Market – It Is Not One Market!", Paint & Coatings Industry, September 2001.

Table 3-1 lists total sales for coating categories, as well as sub-totals for solvent-borne and water-borne sales in each category. In addition, the table contains a percentage breakdown for recommended exposure (i.e., interior, exterior, or dual exposure).

Table 3-1: Sales by Category

Coating Category	2004 Sales Including Quarts (gallons)			% SB	% WB	% Int	% Ext	% Dual
	Total	Solvent-borne	Water-borne					
Bituminous Roof	1,554,703	225,764	1,328,939	15	85	0	100	0
Bituminous Roof Primer	68,092	59,968	8,124	88	12	0	100	0
Bond Breakers	187,785	PD	PD	PD	PD	0	100	0
Clear Brushing Lacquer	PD	PD	0	100	0	100	0	0
Concrete Curing Compounds	891,471	43,771	847,700	5	95	0	31	69
Driveway Sealer	2,205,802	PD	PD	PD	PD	0	100	0
Dry Fog	377,707	187,112	190,595	50	50	97	1	2
Faux Finishing	303,810	4,430	299,379	1	99	98	0	2
Fire Resistive	12,510	PD	PD	PD	PD	91	0	9
Fire Retardant - Clear	PD	PD	0	100	0	57	0	43
Fire Retardant - Opaque	195,197	PD	PD	PD	PD	100	0	0
Flat	37,270,680	4,142	37,266,538	0	100	49	36	15
Floor	1,392,290	168,212	1,224,078	12	88	7	3	90
Form Release Compounds	323,612	284,655	38,957	88	12	0	4	96
Graphic Arts	PD	PD	PD	PD	PD	2	0	98
High Temperature	11,736	11,736	0	100	0	9	0	91
Industrial Maintenance	2,084,212	1,391,172	693,040	67	33	13	9	78
Lacquers	1,296,323	942,732	353,591	73	27	94	0	6
Low Solids	65,680	0	65,680	0	100	0	88	12
Magnesite Cement	PD	PD	0	100	0	0	100	0
Mastic Texture	812,614	PD	PD	PD	PD	0	64	36
Metallic Pigmented	651,012	518,414	132,598	80	20	1	79	20
Multi-Color	13,635	PD	PD	PD	PD	100	0	0
Nonflat - High Gloss	1,705,656	41,929	1,663,727	2	98	43	1	56
Nonflat - Low Gloss	12,031,898	3,856	12,028,042	0	100	67	15	18
Nonflat - Medium Gloss	20,125,660	77,344	20,048,316	0	100	55	13	31
Other	91,301	2,576	88,724	3	97	56	24	20
Pre-Treatment Wash Primer	5,652	1,082	4,571	19	81	0	0	100
Primer, Sealer, and Undercoater	10,405,708	261,172	10,144,536	3	97	38	11	52
Quick Dry Enamel	762,284	712,214	50,070	93	7	30	13	57
Quick Dry Primer, Sealer, and Undercoater	264,083	226,057	38,026	86	14	45	0	55
Recycled	223,381	0	223,381	0	100	0	46	54
Roof	1,420,706	44,101	1,376,605	3	97	0	100	0
Rust Preventative	2,094,585	2,007,468	87,117	96	4	29	6	66
Sanding Sealers	59,969	36,659	23,310	61	39	100	0	0
Shellacs - Clear	PD	PD	0	100	0	100	0	0
Shellacs - Opaque	PD	PD	0	100	0	0	0	100

Table 3-1: Sales by Category

Coating Category	2004 Sales Including Quarts (gallons)			% SB	% WB	% Int	% Ext	% Dual
	Total	Solvent-borne	Water-borne					
Specialty Primer, Sealer, and Undercoater	2,019,995	1,518,613	501,382	75	25	4	6	91
Stains - Clear/Semitransparent	1,866,719	1,458,981	407,738	78	22	26	55	19
Stains - Opaque	951,777	20,627	931,151	2	98	1	97	2
Swimming Pool	7,852	PD	PD	PD	PD	0	61	39
Swimming Pool Repair and Maintenance	PD	PD	0	100	0	0	77	23
Traffic Marking	2,214,451	329,369	1,885,082	15	85	0	96	4
Varnishes - Clear	972,285	696,005	276,280	72	28	76	11	13
Varnishes - Semitransparent	94,937	86,302	8,635	91	9	90	10	0
Waterproofing Concrete/Masonry Sealers	1,523,467	841,448	682,019	55	45	0	38	62
Waterproofing Sealers	1,626,644	309,312	1,317,332	19	81	2	68	30
Wood Preservatives	173,846	164,236	9,610	94	6	0	100	0
TOTAL:	110,676,675	13,311,087	97,365,588	12	88	43	29	28

Notes:

1. PD = Protected Data. Fewer than three companies reported sales. If fewer than three companies reported sales for either solvent-borne or water-borne, data was protected for both solvent-borne and water-borne.
2. The sales volumes in this table include sales of small containers (1 quart or less).
3. No sales were reported for the following categories: Antenna; Antifouling; Flow; and Temperature Indicator Safety.

Notes on specific coating categories:

Recycled: All of the recycled paint was reported for either dual or exterior applications. Recycled paint is often marketed for graffiti abatement purposes and it is generally formulated to withstand exterior exposures.

Swimming Pool and Swimming Pool Repair and Maintenance: A significant percentage of the swimming pool coatings were designated as being intended for Dual (Interior/Exterior) applications, rather than just exterior as would be expected. Some of the product literature for swimming pool coatings mentions their application for indoor pools. Water-borne coatings are sometimes recommended for indoor pools, but epoxy coatings may also be used for indoor pools to provide greater durability.

Traffic Marking: A small percentage of the traffic marking coatings are designated as being intended for Dual (Interior/Exterior) applications, rather than just exterior as would be expected. Some traffic coatings are used for interior applications (e.g., for marking lines in warehouses) and one manufacturer labels products as interior/exterior traffic coatings.

Provided below are the major clarifications and interpretations that ARB staff used when reviewing survey data to determine whether products had been placed in the most appropriate category.

Bituminous Roof, Bituminous Roof Primers, and Roof: For coatings reported as Bituminous Roof, Bituminous Roof Primers, and Roof, if the coating was an adhesive, lap cement, repair, or flashing cement product, we removed them from the survey data. These are more properly considered adhesives and sealants, which are subject to local air district rules, rather than architectural coatings.

Floor: Coatings reported as Floor coatings required a good deal of recategorization. In general, Floor coatings should be opaque deck, porch, and stair paints, and garage floor coatings. If the coating met the Floor definition, but also claimed the resistances for the Waterproofing Concrete/Masonry Sealers category, we moved it to Waterproofing Concrete/Masonry Sealers. If the coating was clear, but had no resistances specified, then we moved it to Waterproofing Sealers. If the coating was clear, but it was designed for wood substrates, we moved it to Varnishes. If it was a warehouse floor coating, we moved it to Industrial Maintenance.

Industrial Maintenance: In general, if a coating met a category definition, but the coating was used in an industrial setting (e.g., chemical plant, food processing plant, refinery, etc.), then we put it in the Industrial Maintenance category. This was the case for coatings reported as Floor; Mastic Texture; Primer, Sealer, Undercoaters; Quick Dry Enamels; Quick Dry Primer, Sealer, Undercoaters; Rust Preventatives; Waterproofing Concrete/Masonry Sealers; and Waterproofing Sealers.

If Industrial Maintenance coatings met the Metallic Pigmented definition, then we moved them to that category. Anti-graffiti coatings, whether sacrificial or permanent, were put into the Industrial Maintenance category. Bituminous pipe and tank coatings also were put into the Industrial Maintenance category.

Metallic Pigmented: As has historically been the case, the Metallic Pigmented category consists primarily of aluminum roof coatings, as well as zinc-rich primers and decorative metallic coatings.

Primer, Sealer, Undercoaters: Coatings reported as Primer, Sealer, Undercoaters also required a good deal of recategorization. If the coating had stain-blocking ability (e.g., for tannins) or any other Specialty PSU characteristics, we moved the coatings to Specialty PSU. If the coating was a rust inhibitor or rust preventative, and it was not intended for use in an industrial setting, we moved it to Rust Preventative. However, if it was designed for use in an industrial setting, then we moved it to Industrial Maintenance. If it was a concrete sealer that was not topcoated, then we moved it to Waterproofing Sealers, or to Waterproofing Concrete/Masonry Sealers if it had the necessary resistances. If it was an oil finish that penetrated and sealed (e.g., Tung Oil or Teak Oil), then we moved it to Stains – Clear/Semitransparent. If it was a wood sealer that was not

topcoated, then we moved it to Waterproofing Sealers. If the coating was a primer for non-bituminous roof coatings, we moved it to Roof Coatings.

Rust Preventative: Rust Preventative or rust inhibitor coatings used in a non-industrial setting (e.g., coatings applied by maintenance personnel), were kept in the Rust Preventative category. If the coating had industrial chemical and environmental resistances, we moved it to the Industrial Maintenance category.

Sanding Sealers: Lacquer Sanding Sealers reported as Sanding Sealers were moved to lacquers.

Stains – Clear/Semitransparent: Stains reported that also provide a film-forming protective finish were moved to Varnishes. Oil finishes that penetrate and seal (e.g., Tung Oils or Teak Oils) that were reported as Varnishes were moved to Stains – Clear/Semitransparent.

Traffic Marking: Solid thermoplastic traffic coatings that are melted onto a roadway were removed from the survey data.

Waterproofing Concrete/Masonry Sealers: Waterproofing Concrete/Masonry Sealers included parking garage coatings, bridge deck coatings, and non-slip coatings. Reported Waterproofing Concrete/Masonry Sealers that met most of the definition but were penetrating coatings were kept in the category. Bituminous dampproofing or foundation coatings were put into the Waterproofing Concrete/Masonry Sealers category.

Table 3-2 illustrates the ranking of coating categories, based on sales volumes. This table does not include data for coating categories that had protected sales data.

Table 3-2: Sales by Category (sorted by volume in descending order)

Coating Category	2004 Sales (gallons)
Flat	37,270,680
Nonflat - Medium Gloss	20,125,660
Nonflat - Low Gloss	12,031,898
Primer, Sealer, and Undercoater	10,405,708
Traffic Marking	2,214,451
Rust Preventative	2,094,585
Industrial Maintenance	2,084,212
Specialty Primer, Sealer, and Undercoater	2,019,995
Stains - Clear/Semitransparent	1,866,719
Nonflat - High Gloss	1,705,656
Waterproofing Sealers	1,626,644
Bituminous Roof	1,554,703
Waterproofing Concrete/Masonry Sealers	1,523,467
Roof	1,420,706
Floor	1,392,290
Lacquers	1,296,323
Varnishes - Clear	972,285
Stains - Opaque	951,777
Concrete Curing Compounds	891,471
Quick Dry Enamel	762,284
Metallic Pigmented	651,012
Dry Fog	377,707
Form Release Compounds	323,612
Faux Finishing	303,810
Quick Dry Primer, Sealer, and Undercoater	264,083
Recycled	223,381
Wood Preservatives	173,846
Varnishes - Semitransparent	94,937
Other	91,301
Bituminous Roof Primer	68,092
Low Solids	65,680
Sanding Sealers	59,969
High Temperature	11,736
Pre-Treatment Wash Primer	5,652

Notes:

1. The sales volumes in this table include sales of small containers (1 quart or less).
2. This table does not include data for coating categories that had protected sales data.
3. The "Other" coating category consists primarily of asbestos encapsulants and concrete dustproofers/hardeners.

Table 3-3 displays the sales for each category by small containers and large containers, including the percentage of sales in small containers. The percentage of sales in small containers for the 2005 survey was almost identical to the percentage for the 2001 survey.

Table 3-3: Sales by Category (based on container size)

Coating Category	Total	Small Containers (≤ 1 quart)	Large Containers (> 1 quart)	% Small Containers
Bituminous Roof	1,554,703	4,133	1,550,570	0%
Bituminous Roof Primer	68,092	0	68,092	0%
Bond Breakers	187,785	0	187,785	0%
Clear Brushing Lacquer	PD	PD	PD	37%
Concrete Curing Compounds	891,471	215	891,256	0%
Driveway Sealer	2,205,802	4	2,205,798	0%
Dry Fog	377,707	4,665	373,042	1%
Faux Finishing	303,810	68,571	235,239	23%
Fire Resistive	12,510	0	12,510	0%
Fire Retardant - Clear	PD	PD	PD	1%
Fire Retardant - Opaque	195,197	612	194,585	0%
Flat	37,270,680	571,525	36,699,154	2%
Floor	1,392,290	9,726	1,382,564	1%
Form Release Compounds	323,612	0	323,612	0%
Graphic Arts	PD	PD	PD	81%
High Temperature	11,736	3,620	8,116	31%
Industrial Maintenance	2,084,212	26,358	2,057,855	1%
Lacquers	1,296,323	36,659	1,259,664	3%
Low Solids	65,680	390	65,290	1%
Magnesite Cement	PD	PD	PD	0%
Mastic Texture	812,614	23	812,591	0%
Metallic Pigmented	651,012	13,346	637,666	2%
Multi-Color	13,635	263	13,372	2%
Nonflat - High Gloss	1,705,656	47,673	1,657,983	3%
Nonflat - Low Gloss	12,031,898	419,869	11,612,029	3%
Nonflat - Medium Gloss	20,125,660	812,929	19,312,731	4%
Other	91,301	593	90,708	1%
Pre-Treatment Wash Primer	5,652	1,050	4,602	19%
Primer, Sealer, and Undercoater	10,405,708	185,496	10,220,213	2%
Quick Dry Enamel	762,284	16,257	746,027	2%
Quick Dry Primer, Sealer, and Undercoater	264,083	18,451	245,632	7%
Recycled	223,381	0	223,381	0%
Roof	1,420,706	8,363	1,412,343	1%
Rust Preventative	2,094,585	231,666	1,862,919	11%
Sanding Sealers	59,969	34,911	25,058	58%

Table 3-3: Sales by Category (based on container size)

Coating Category	Total	Small Containers (≤ 1 quart)	Large Containers (> 1 quart)	% Small Containers
Shellacs - Clear	PD	PD	PD	27%
Shellacs - Opaque	PD	PD	PD	2%
Specialty Primer, Sealer, and Undercoater	2,019,995	45,617	1,974,378	2%
Stains - Clear/Semitransparent	1,866,719	536,530	1,330,189	29%
Stains - Opaque	951,777	3,431	948,346	0%
Swimming Pool	7,852	0	7,852	0%
Swimming Pool Repair and Maintenance	PD	PD	PD	0%
Traffic Marking	2,214,451	125	2,214,326	0%
Varnishes - Clear	972,285	505,925	466,360	52%
Varnishes - Semitransparent	94,937	84,065	10,872	89%
Waterproofing Concrete/Masonry Sealers	1,523,467	14,065	1,509,402	1%
Waterproofing Sealers	1,626,644	4,565	1,622,079	0%
Wood Preservatives	173,846	15,036	158,810	9%
TOTAL:	110,676,675	3,778,551	106,898,123	3%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales (to be consistent with the protected data in Table 3-1).
2. No sales were reported for the following categories: Antenna; Antifouling; Flow; and Temperature Indicator Safety.

The proportions of solvent-borne and water-borne coatings are graphically illustrated in Figure 3-1, while Figure 3-2 highlights the top ten coating categories, based on sales volume.

Figure 3-1
Water-borne and Solvent-borne Sales

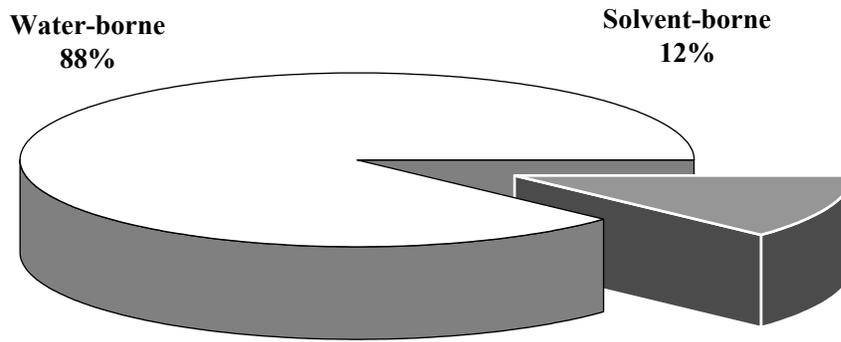
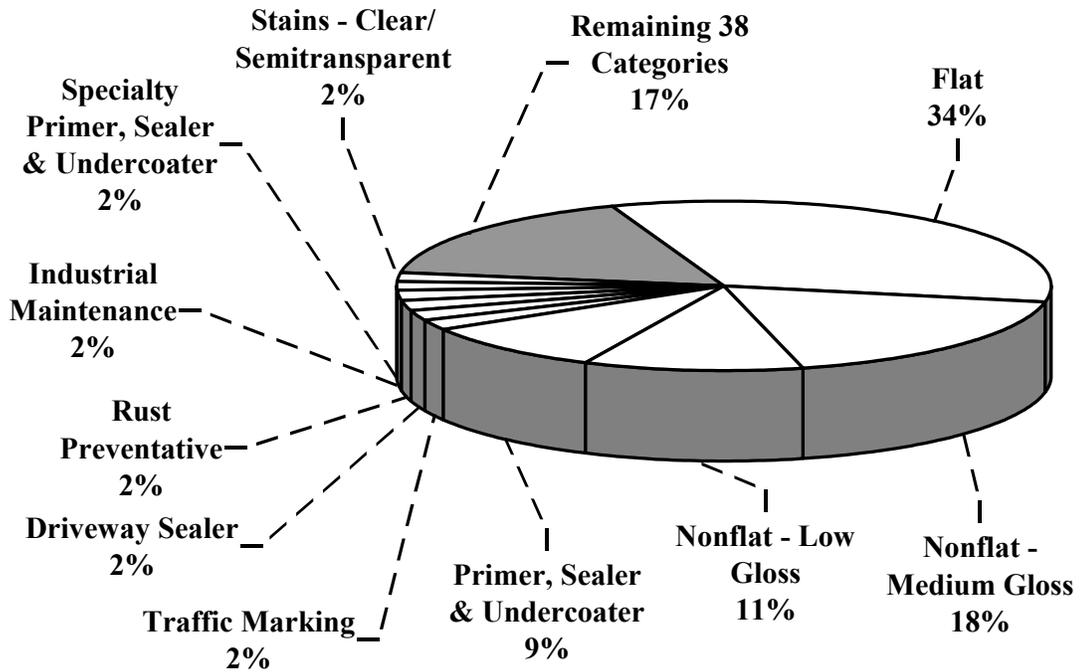


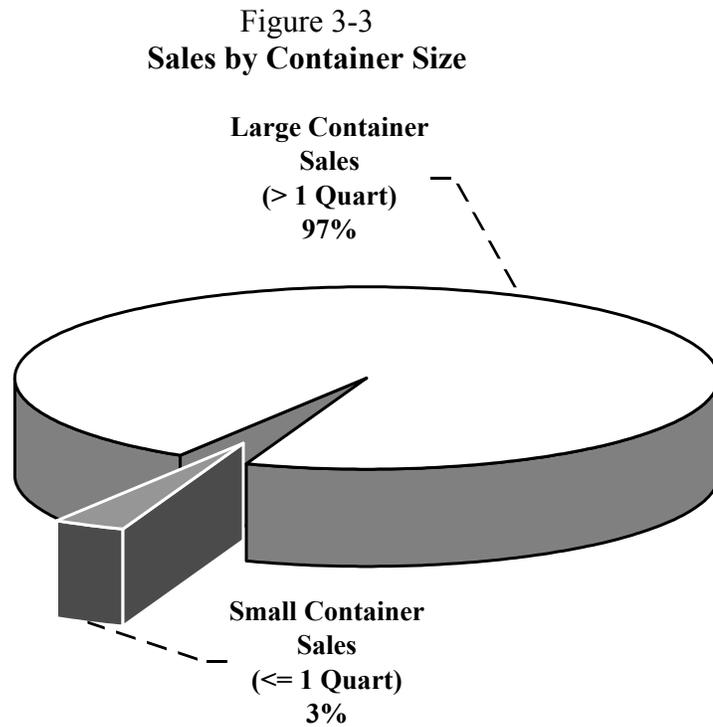
Figure 3-2
Top 10 Sales Categories



Top 10 categories account for 83% of total Sales.

Figure 3-3 illustrates the sales quantities for the following two container sizes:

- Large Containers - Greater than one quart (e.g., 1-gallon or 5-gallon)
- Small Containers - 1 quart or less



Chapter 4 -- VOC Contents and VOC Distribution Histograms

The 2005 survey collected data on VOC Regulatory and VOC Actual values. The VOC could either be based on formulation data or U.S. EPA Method 24 laboratory results. Most survey respondents relied on formulation data to determine VOC content. The 2005 survey also involved collection of data for the physical parameters that were used to calculate the VOC values (e.g. weight percent solids, etc.) ARB staff were then able to verify whether the reported parameters were consistent with the calculated VOC content, using the following equations:

$$\text{VOC}_{\text{Actual}} = \frac{W_{\text{vm}} - W_{\text{w}} - W_{\text{e}}}{V_{\text{c}}} \quad \text{VOC}_{\text{Regulatory}} = \frac{W_{\text{vm}} - W_{\text{w}} - W_{\text{e}}}{V_{\text{c}} - V_{\text{w}} - V_{\text{e}}}$$

(Also known as Material VOC) (Also known as Coating VOC)

$$\text{VOC}_{\text{Regulatory (Low Solids)}} = \frac{W_{\text{vm}} - W_{\text{w}} - W_{\text{e}}}{V_{\text{c}}}$$

Where:

- W_{vm} = Total weight of volatile materials (VOC + water + exempt compounds) in the coating, in grams
- W_{w} = Weight of water in the coating, in grams
- W_{e} = Weight of exempt compounds in the coating, in grams
- V_{c} = Total volume of the coating, in liters
- V_{w} = Volume of water in the coating, in liters
- V_{e} = Volume of exempt compounds in the coating, in liters

This chapter contains data on sales-weighted average VOC contents, that were calculated for each category using the following equation:

$$\text{SWA} = \frac{((\text{Value}_1 \times \text{Sales}_1) + (\text{Value}_2 \times \text{Sales}_2) + (\text{Value}_n \times \text{Sales}_n))}{(\text{Sales}_1 + \text{Sales}_2 + \text{Sales}_n)}$$

Where:

- Value_(1,2,...n) = Coating characteristic values (e.g., VOC Actual, VOC Regulatory, etc.) for products 1,2,...n
- Sales_(1,2,...n) = Sales for products 1,2,...n

This chapter includes the following data summaries:

Table 4-1: *VOC Regulatory Contents*

Table 4-2: *VOC Actual Contents*

Figures 4-1 to 4-33: *VOC Distribution Histograms (includes two charts per category)*

- a. *Sales Volume vs. VOC Regulatory*
- b. *Sales Volume vs. Weight Percent VOC*

Sales of small containers (one quart or less) were included when calculating the sales-weighted average VOC contents in Table 4-1 and Table 4-2. In most categories, the VOC contents for water-borne coatings are substantially less than the value for solvent-borne coatings. However, there are some water-borne coatings that have a relatively high VOC value. This is due to the fact that some water-borne coatings can still contain an appreciable amount of organic solvent. It is also a result of the methods that manufacturers used to determine whether a coating was water-borne or solvent-borne. Some manufacturers chose to classify coatings based on the percentage of water in the coating. Other manufacturers classified coatings based on whether the coating equipment was cleaned with water or an organic solvent. If a coating contained a relatively large amount of organic solvent, but it could be cleaned with water, it could be classified as water-borne and the VOC value could seem to be higher than expected for a typical water-borne coating.

Table 4-1: VOC Regulatory Contents

Coating Category	SWA VOC REGULATORY (g/l)					
	All	SB	WB	Int	Ext	Dual
Bituminous Roof	38	240	3	NA	38	NA
Bituminous Roof Primer	324	346	167	NA	324	NA
Bond Breakers	302	717	300	NA	302	NA
Clear Brushing Lacquer	666	666	NA	666	NA	612
Concrete Curing Compounds	166	344	156	560	222	140
Driveway Sealer	3	439	2	NA	3	NA
Dry Fog	233	361	107	231	80	384
Faux Finishing	257	392	255	257	NA	273
Fire Resistive	124	283	18	130	NA	63
Fire Retardant - Clear	531	531	NA	527	NA	536
Fire Retardant - Opaque	325	347	44	325	NA	51
Flat	82	333	82	81	80	87
Floor	104	153	98	82	136	105
Form Release Compounds	233	243	158	NA	100	238
Graphic Arts	350	383	211	271	NA	352
High Temperature	407	407	NA	279	NA	420
Industrial Maintenance	209	227	173	144	235	217
Lacquers	456	571	151	473	401	170
Low Solids	60	NA	60	28	65	26
Magnesite Cement	446	446	NA	NA	446	NA
Mastic Texture	98	248	72	99	74	141
Metallic Pigmented	301	359	77	243	351	110
Multi-Color	103	551	94	103	NA	NA
Nonflat - High Gloss	156	363	150	144	157	165
Nonflat - Low Gloss	118	402	118	118	106	125
Nonflat - Medium Gloss	128	372	127	119	123	147
Other	65	520	51	82	70	10

Table 4-1: VOC Regulatory Contents

Coating Category	SWA VOC REGULATORY (g/l)					
	All	SB	WB	Int	Ext	Dual
Pre-Treatment Wash Primer	275	747	163	NA	NA	275
Primer, Sealer, and Undercoater	128	370	122	116	141	135
Quick Dry Enamel	380	390	237	375	391	381
Quick Dry Primer, Sealer, and Undercoater	361	414	45	448	460	289
Recycled	193	NA	193	NA	213	175
Roof	46	239	40	NA	46	NA
Rust Preventative	369	376	201	366	306	375
Sanding Sealers	399	542	174	398	NA	513
Shellacs - Clear	617	617	NA	617	NA	NA
Shellacs - Opaque	521	521	NA	NA	NA	521
Specialty Primer, Sealer, and Undercoater	281	343	91	126	292	287
Stains - Clear/Semitransparent	338	366	240	484	270	337
Stains - Opaque	106	300	102	149	105	145
Swimming Pool	250	267	222	NA	273	215
Swimming Pool Repair and Maintenance	588	588	NA	NA	587	590
Traffic Marking	101	147	93	NA	101	92
Varnishes - Clear	397	458	243	402	330	422
Varnishes - Semitransparent	422	439	256	439	263	NA
Waterproofing Concrete/Masonry Sealers	206	247	155	126	158	235
Waterproofing Sealers	187	281	164	171	242	64
Wood Preservatives	325	327	292	NA	325	917

Notes:

1. SB = Solvent-borne; WB = Water-borne
2. Int = Interior Exposure; Ext = Exterior Exposure; Dual = Interior and Exterior Exposure
3. NA = Not applicable. No sales were reported for this category.
4. Sales of small containers (one quart or less) were included when calculating the sales-weighted average VOC contents.
5. For Low Solids coatings, VOC Regulatory equals VOC Actual.
6. The “Other” category consists primarily of asbestos encapsulants and concrete dustproofers/hardeners that are primarily water-borne products.

Notes on specific coating categories:

Wood Preservatives: The sales-weighted average VOC Regulatory value for water-borne Wood Preservatives seems high. A large portion of the volume for water-borne Wood Preservatives includes products that have low solids percentages and, therefore, could have been reported in the “Low Solids” category. Products with low solids percentages can have unusually high VOC Regulatory values, due to the structure of the VOC Regulatory equation. If some of the Wood Preservatives had been reported in the

“Low Solids” category, the VOC Regulatory value for those products would be much lower, because VOC Regulatory equals VOC Actual for the “Low Solids” category.

Table 4-2: VOC Actual Contents

Coating Category	SWA VOC ACTUAL (g/l)					
	All	SB	WB	Int	Ext	Dual
Bituminous Roof	36	239	2	NA	36	NA
Bituminous Roof Primer	309	341	71	NA	309	NA
Bond Breakers	79	717	76	NA	79	NA
Clear Brushing Lacquer	666	666	NA	666	NA	612
Concrete Curing Compounds	48	225	39	560	67	39
Driveway Sealer	2	439	1	NA	2	NA
Dry Fog	189	321	60	186	37	371
Faux Finishing	99	392	95	100	NA	40
Fire Resistive	118	282	8	123	NA	63
Fire Retardant - Clear	531	531	NA	527	NA	536
Fire Retardant - Opaque	323	347	16	323	NA	35
Flat	32	330	32	32	32	37
Floor	52	153	38	58	66	51
Form Release Compounds	217	242	32	NA	98	222
Graphic Arts	330	383	107	271	NA	331
High Temperature	364	364	NA	279	NA	373
Industrial Maintenance	178	225	82	132	174	186
Lacquers	245	314	63	255	394	83
Low Solids	60	NA	60	28	65	26
Magnesite Cement	305	305	NA	NA	305	NA
Mastic Texture	62	193	39	49	45	92
Metallic Pigmented	291	358	28	139	340	105
Multi-Color	30	309	25	30	NA	NA
Nonflat - High Gloss	69	363	61	59	107	76
Nonflat - Low Gloss	48	401	48	48	43	54
Nonflat - Medium Gloss	51	372	50	46	47	63
Other	24	499	10	30	26	4
Pre-Treatment Wash Primer	179	742	46	NA	NA	179
Primer, Sealer, and Undercoater	55	362	47	44	83	57
Quick Dry Enamel	371	389	107	373	388	366
Quick Dry Primer, Sealer, and Undercoater	353	409	21	445	460	276
Roof	25	236	18	NA	25	NA
Rust Preventative	363	375	88	365	281	370
Sanding Sealers	352	541	54	351	NA	495
Shellacs - Clear	581	581	NA	581	NA	NA
Shellacs - Opaque	489	489	NA	NA	NA	489

Table 4-2: VOC Actual Contents

Coating Category	SWA VOC ACTUAL (g/l)					
	All	SB	WB	Int	Ext	Dual
Specialty Primer, Sealer, and Undercoater	269	343	42	69	280	276
Stains - Clear/Semitransparent	294	356	70	450	206	334
Stains - Opaque	44	288	38	50	44	42
Swimming Pool	209	267	112	NA	207	212
Swimming Pool Repair and Maintenance	588	588	NA	NA	587	590
Traffic Marking	66	96	61	NA	67	47
Varnishes - Clear	354	457	92	352	297	415
Varnishes - Semitransparent	409	439	108	439	129	NA
Waterproofing Concrete/Masonry Sealers	135	199	57	33	112	149
Waterproofing Sealers	93	263	54	25	123	32
Wood Preservatives	311	327	43	NA	311	917

Notes:

1. SB = Solvent-borne; WB = Water-borne
2. Int = Interior Exposure; Ext = Exterior Exposure; Dual = Interior and Exterior Exposure
3. NA = Not applicable. No sales were reported for this category.
4. Sales of small containers (one quart or less) were included when calculating the sales-weighted average VOC contents.
5. The “Other” category consists primarily of asbestos encapsulants and concrete dustproofers/hardeners that are primarily water-borne products.
6. For the “Recycled” category, incomplete VOC Actual data were submitted. Therefore, we did not include Recycled coatings in this table.

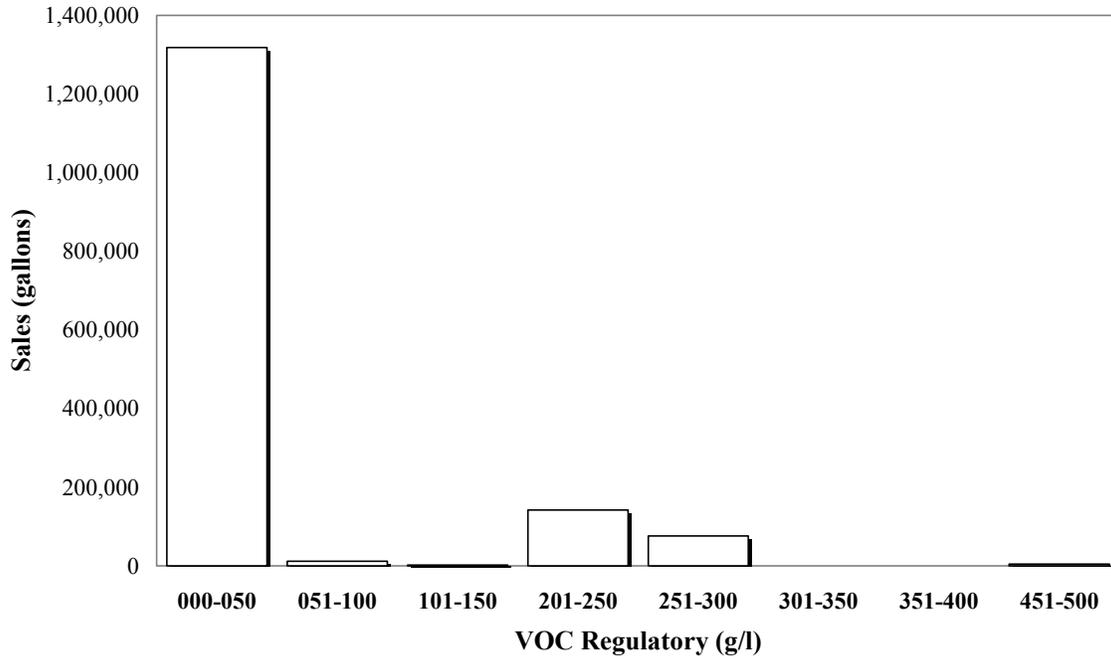
Sales data are summarized in two ways to illustrate which VOC ranges have the highest sales volumes: (1) Sales Volume vs. VOC Regulatory content, in 50-gram/liter increments; and (2) Sales Volume vs. Weight Percent VOC. Figures 4-1a through 4-33a contain charts of the sales (including small containers) for each category in 50-gram/liter increments. Figures 4-1b through 4-33b contain charts of the sales (including small containers) for each category in weight percent VOC increments.

No sales were reported for the following categories because the sales data were protected, as shown in Table 3-1: Bond Breakers; Clear Brushing Lacquers; Driveway Sealers; Fire Resistive; Fire Retardant – Clear; Fire Retardant – Opaque; Graphic Arts; Magnesite Cement; Mastic Texture; Multi-Color; Recycled; Shellacs – Clear; Shellacs – Opaque; Swimming Pool; and Swimming Pool Repair and Maintenance.

No sales were reported for the following categories because no sales were reported in the survey: Antenna; Antifouling; Flow; and Temperature Indicator Safety.

VOC DISTRIBUTION HISTOGRAMS

**Figure 4-1a
Bituminous Roof**



**Figure 4-1b
Bituminous Roof**

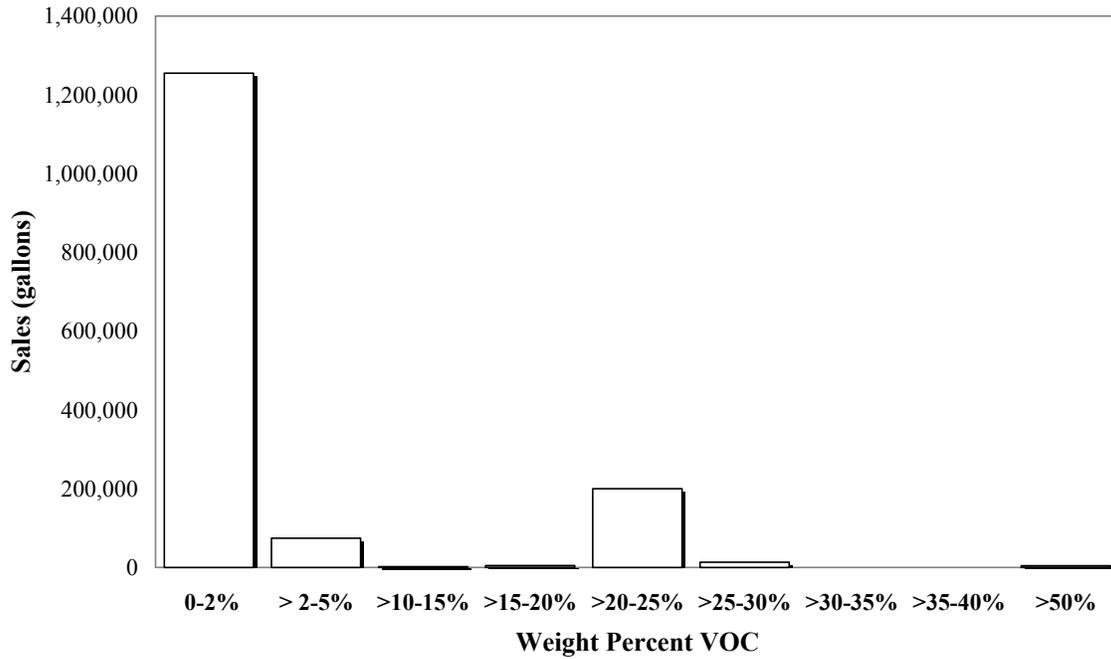


Figure 4-2a
Bituminous Roof Primer

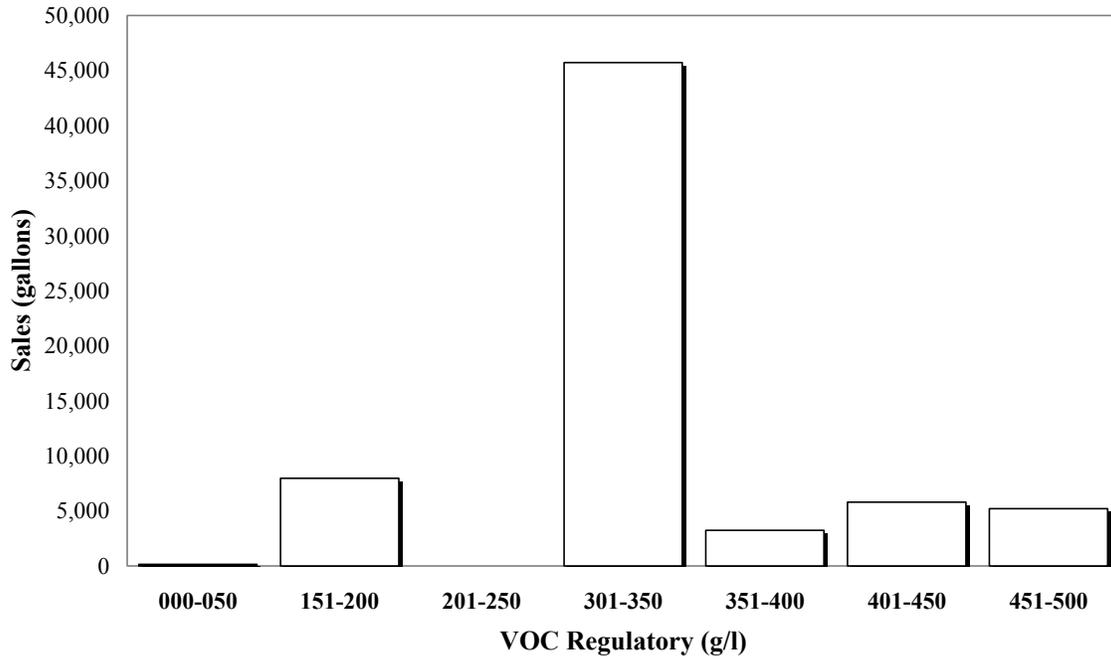
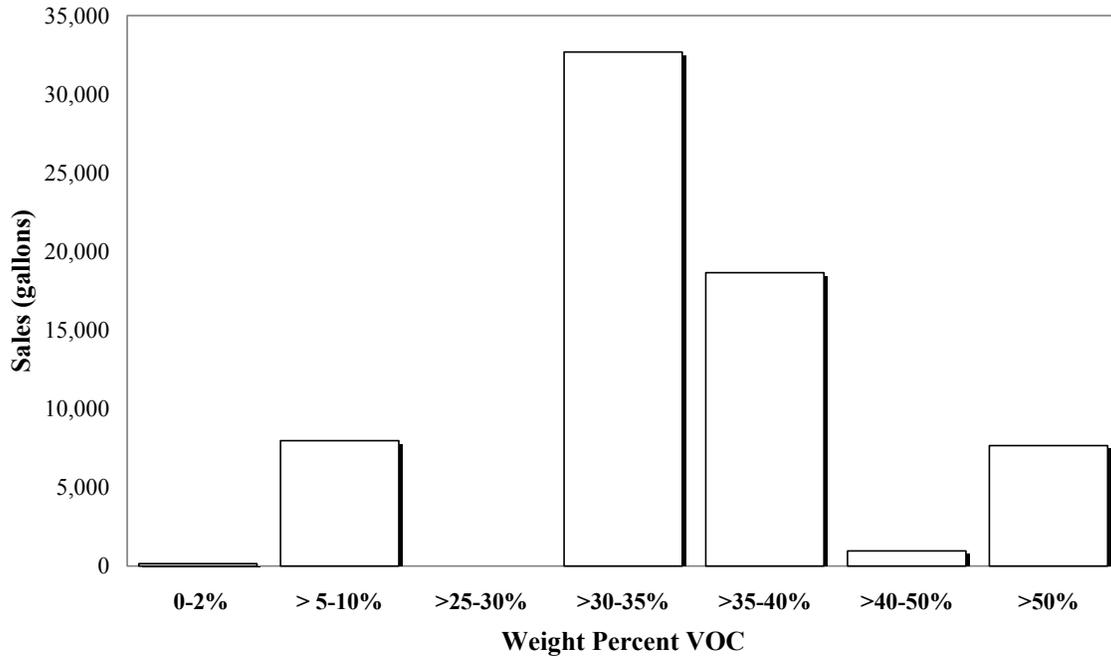


Figure 4-2b
Bituminous Roof Primer



No figures are provided for **Bond Breakers** or **Clear Brushing Lacquers**, because sales data are protected.

Figure 4-3a
Concrete Curing Compounds

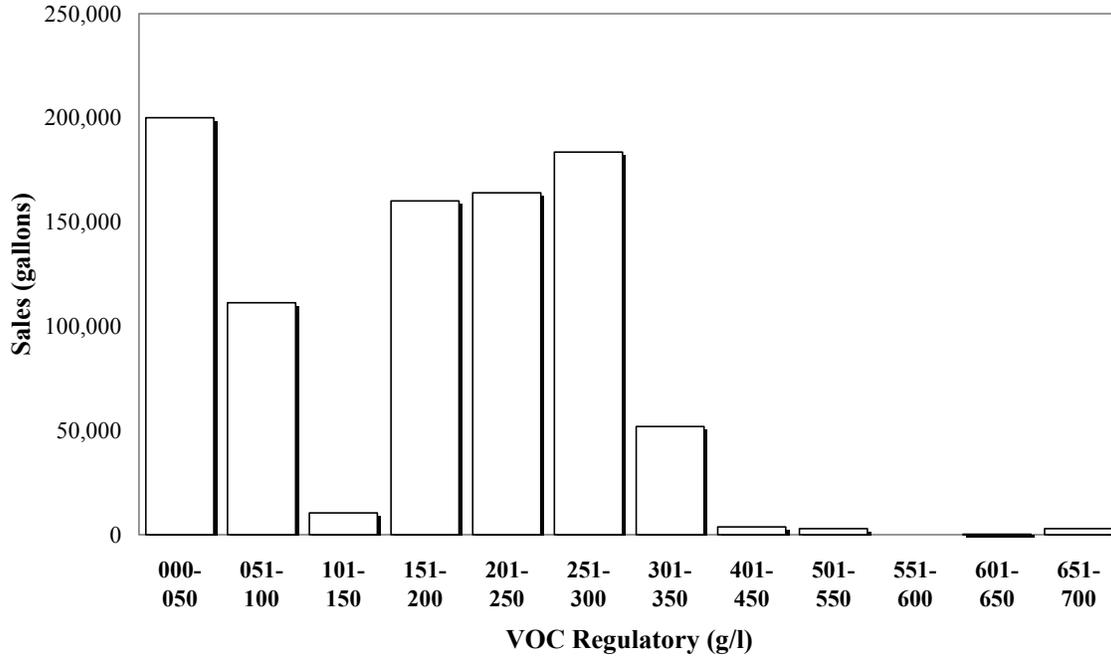
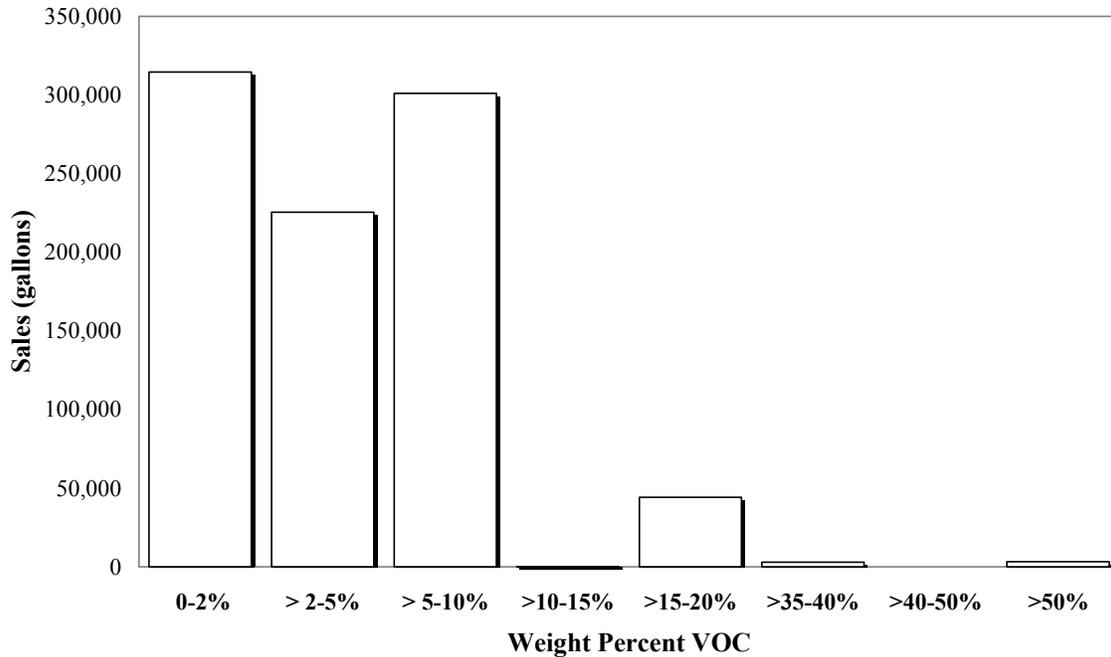


Figure 4-3b
Concrete Curing Compounds



No figures are provided for **Driveway Sealers**, because sales data are protected.

Figure 4-4a
Dry Fog

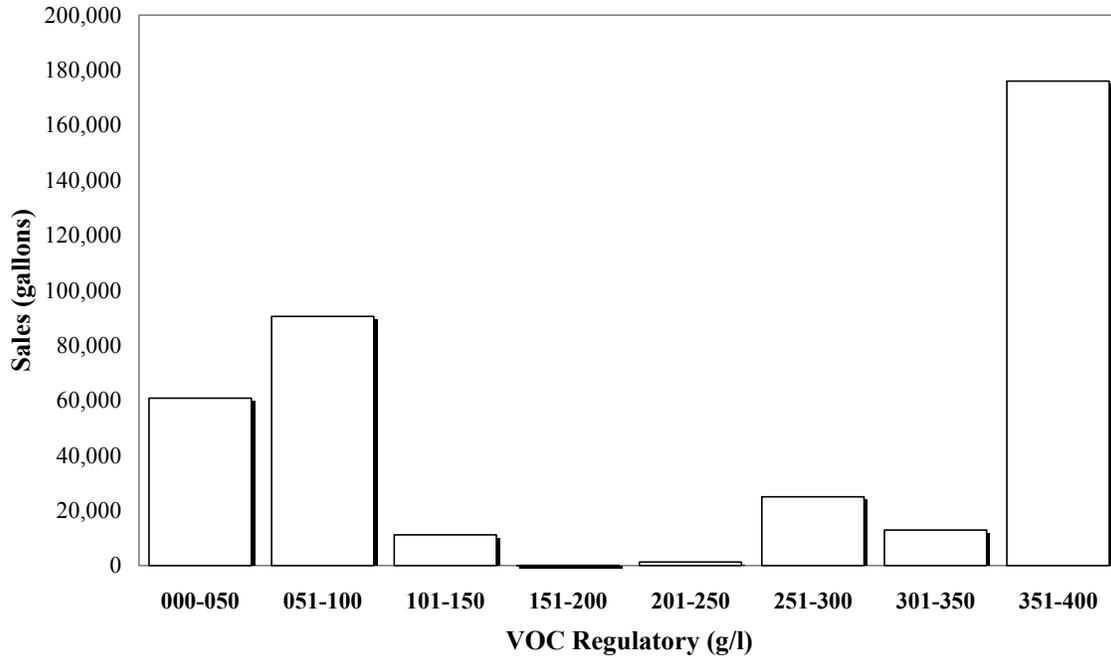


Figure 4-4b
Dry Fog

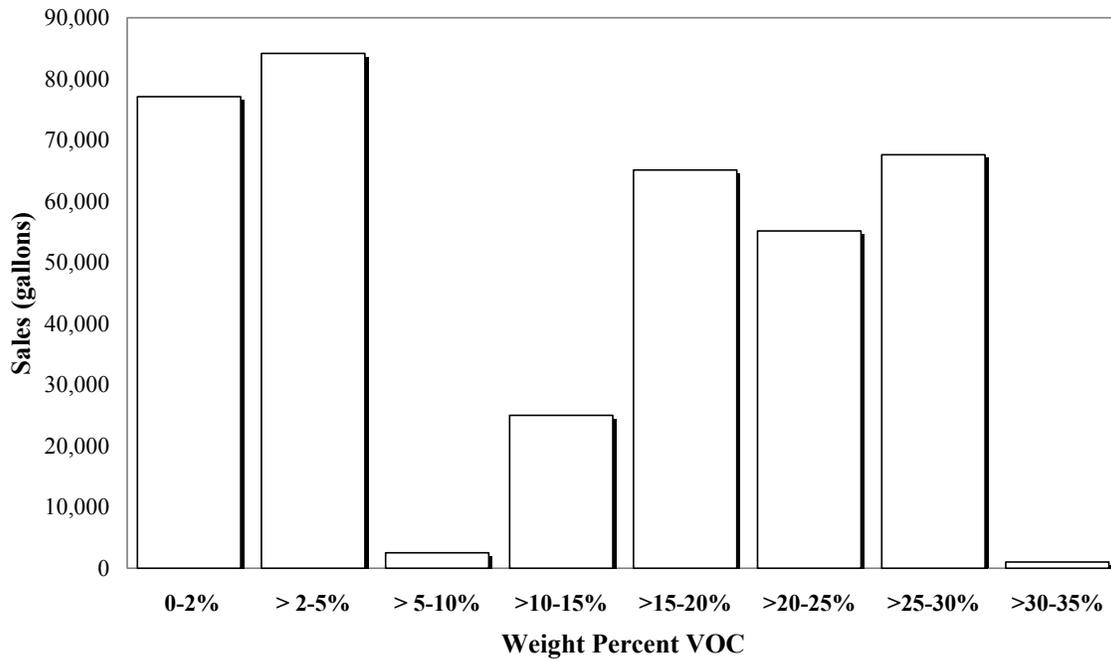


Figure 4-5a
Faux Finishing

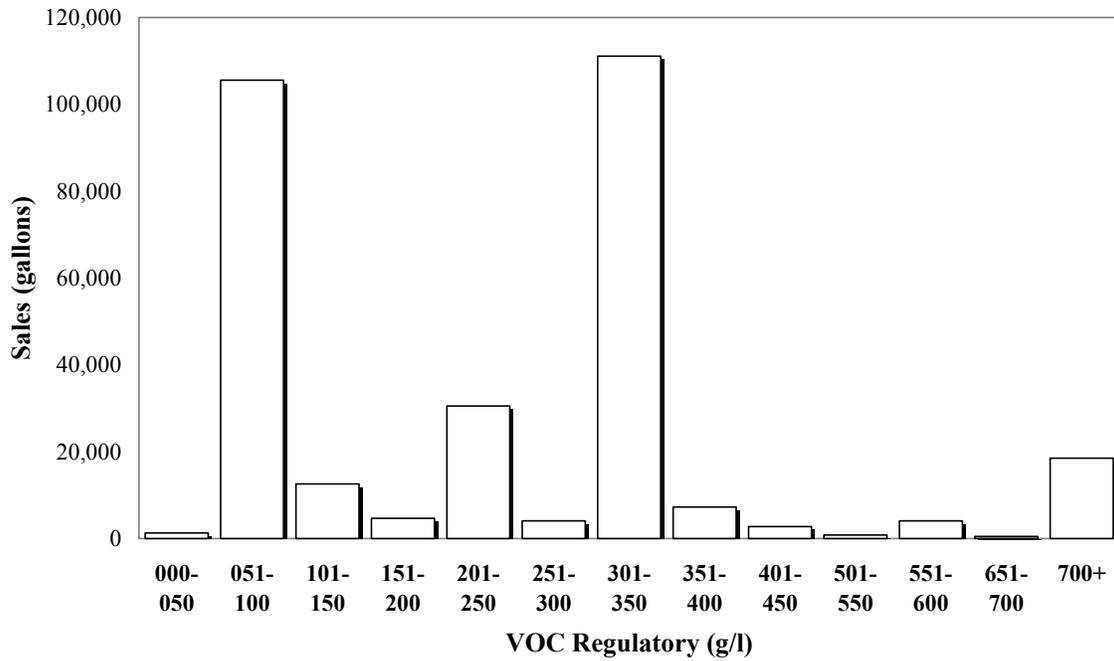
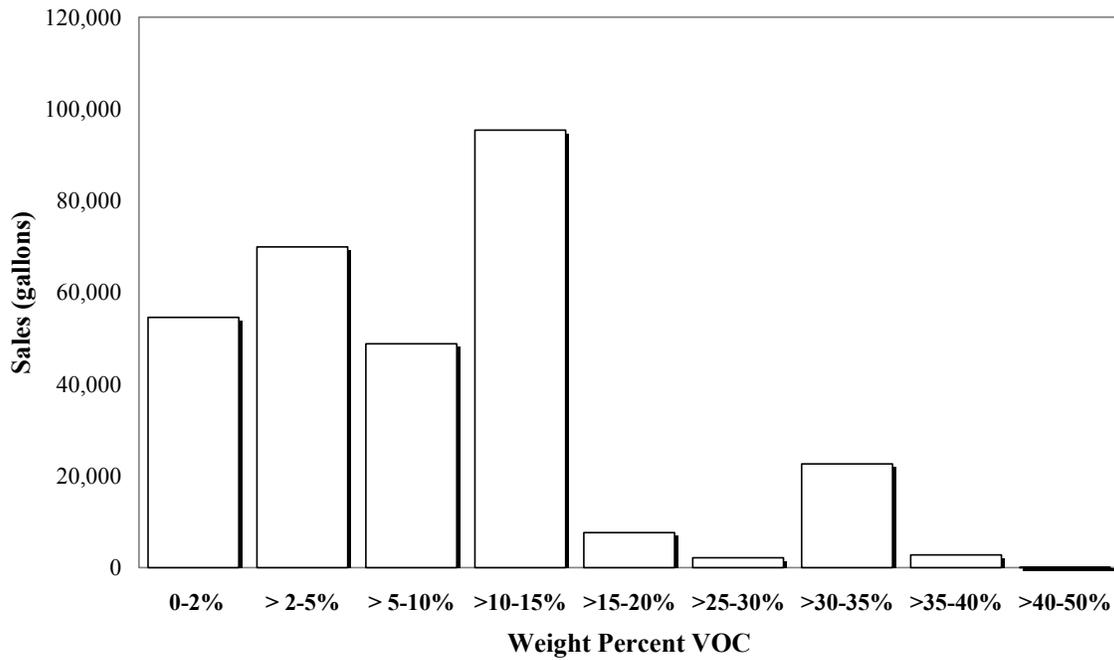


Figure 4-5b
Faux Finishing



No figures are provided for **Fire Resistive**, **Fire Retardant – Clear**, or **Fire Retardant - Opaque** coatings, because sales data are protected.

Figure 4-6a
Flat

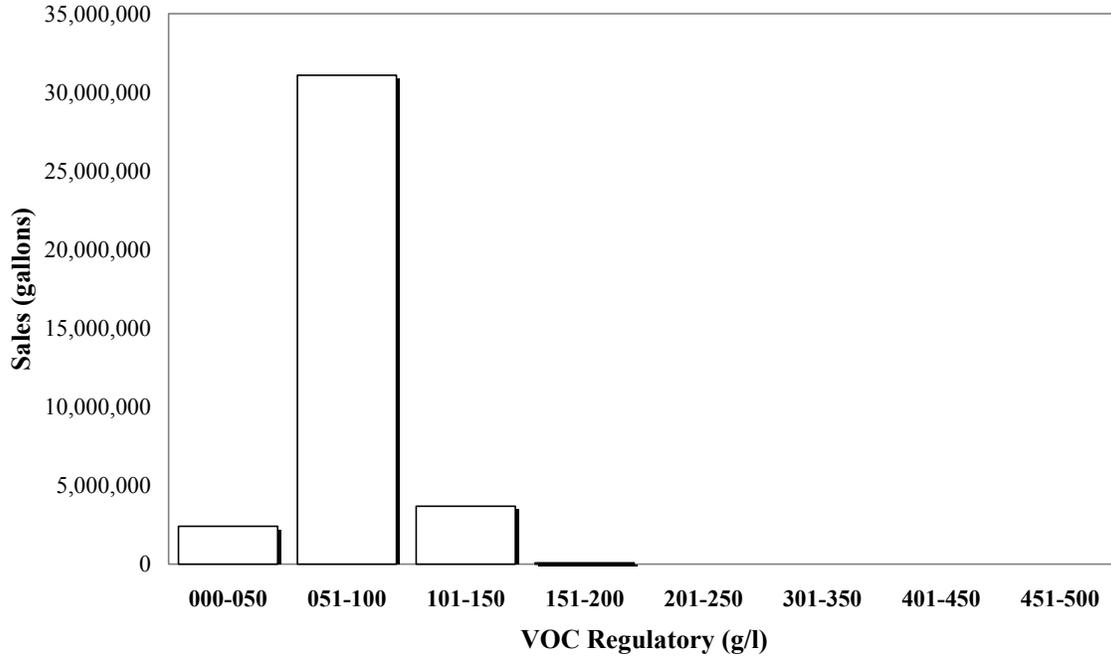


Figure 4-6b
Flat

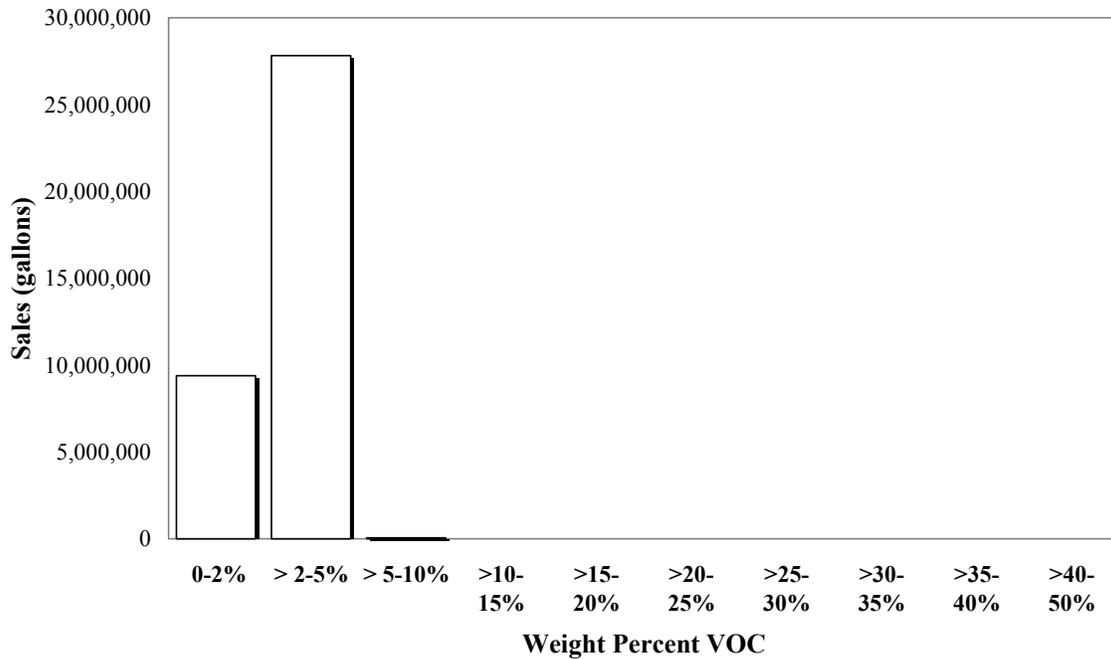


Figure 4-7a
Floor

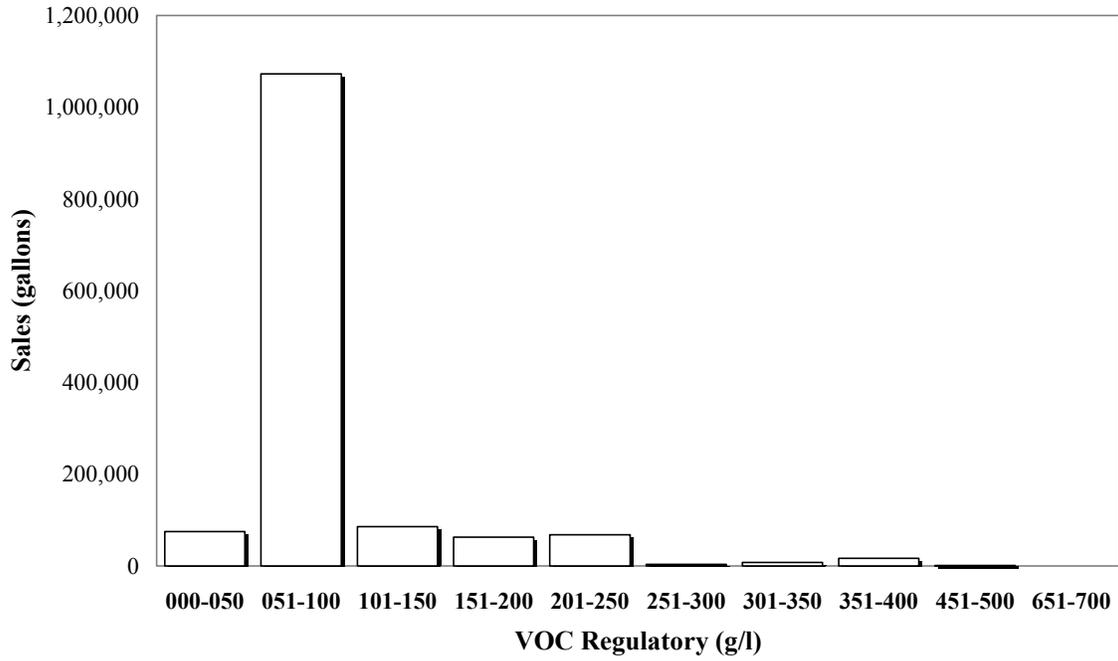


Figure 4-7b
Floor

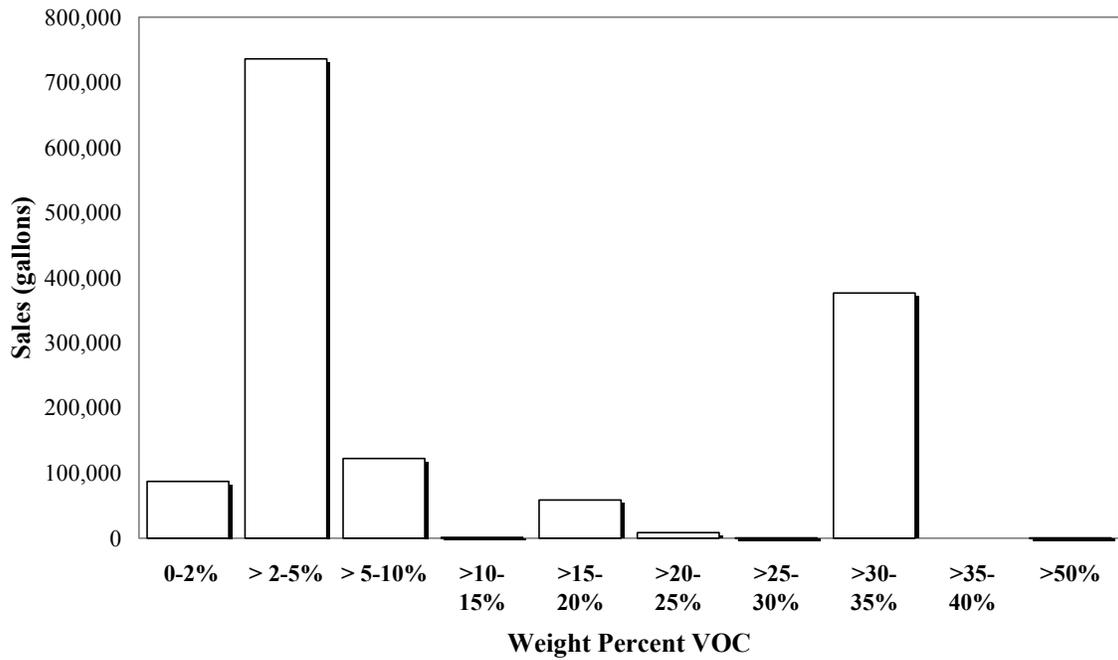


Figure 4-8a
Form Release Compounds

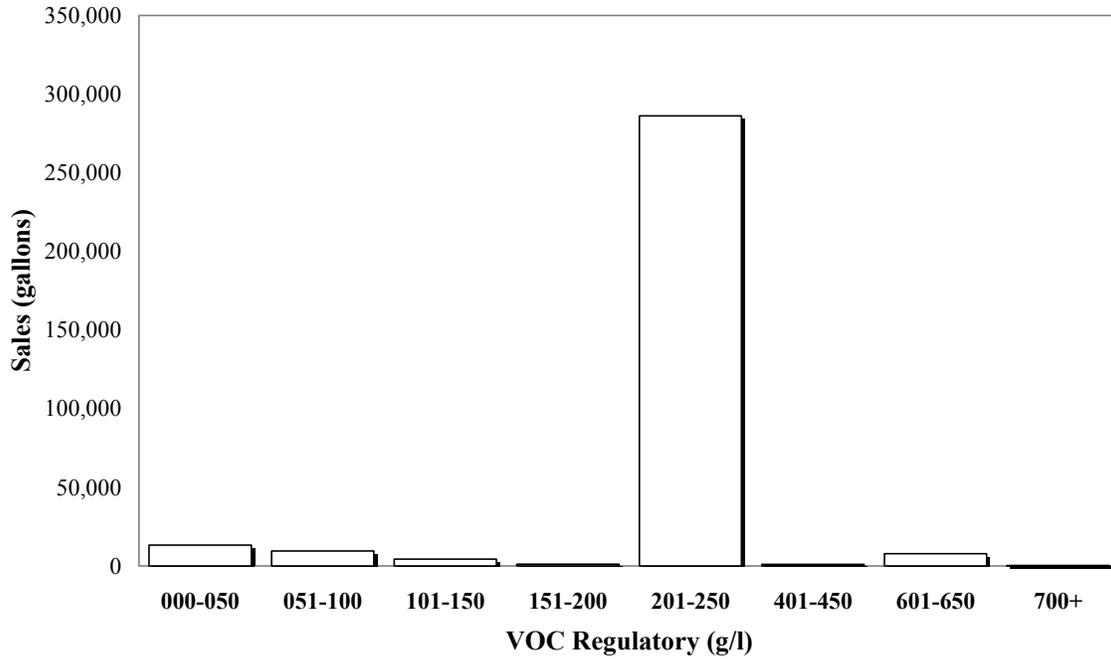
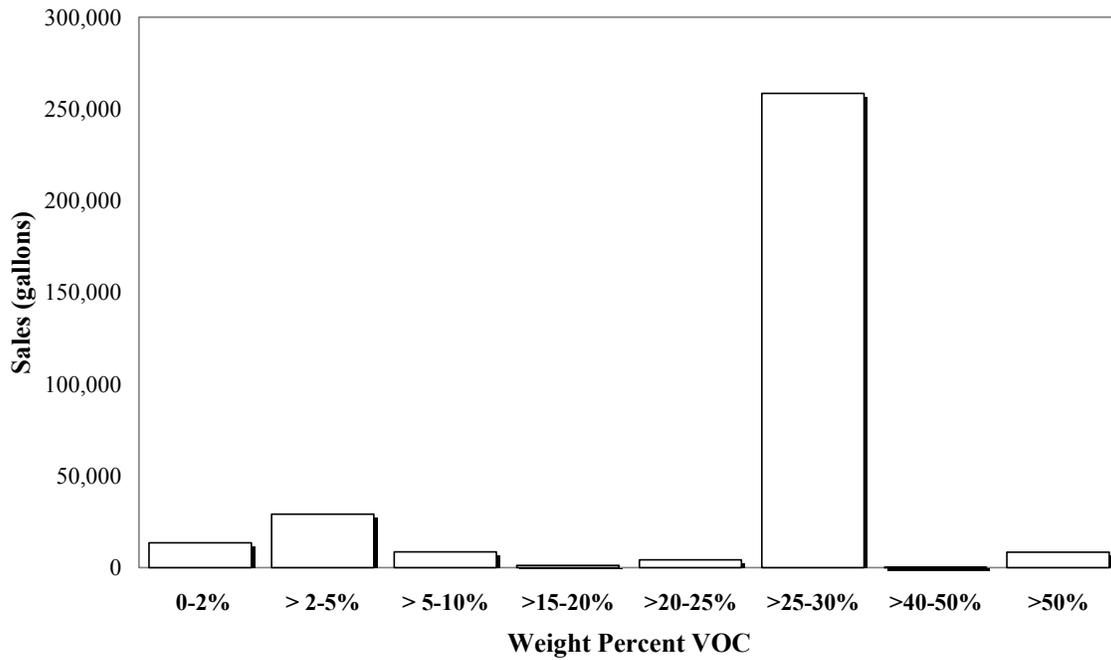


Figure 4-8b
Form Release Compounds



No figures are provided for **Graphic Arts** coatings, because sales data are protected.

Figure 4-9a
High Temperature

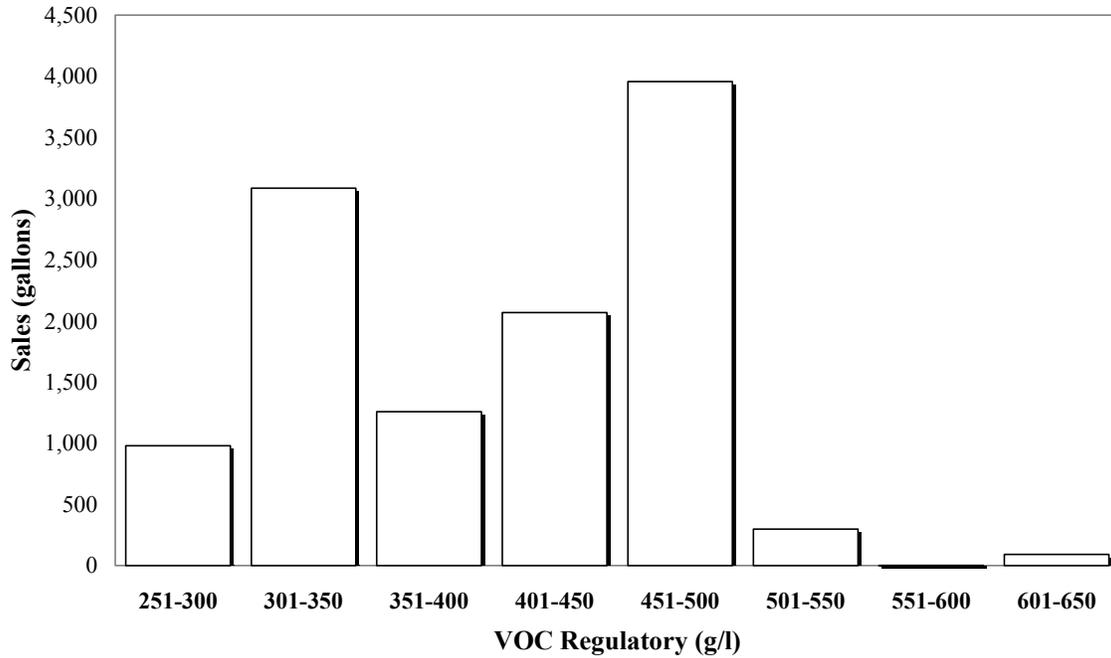


Figure 4-9b
High Temperature

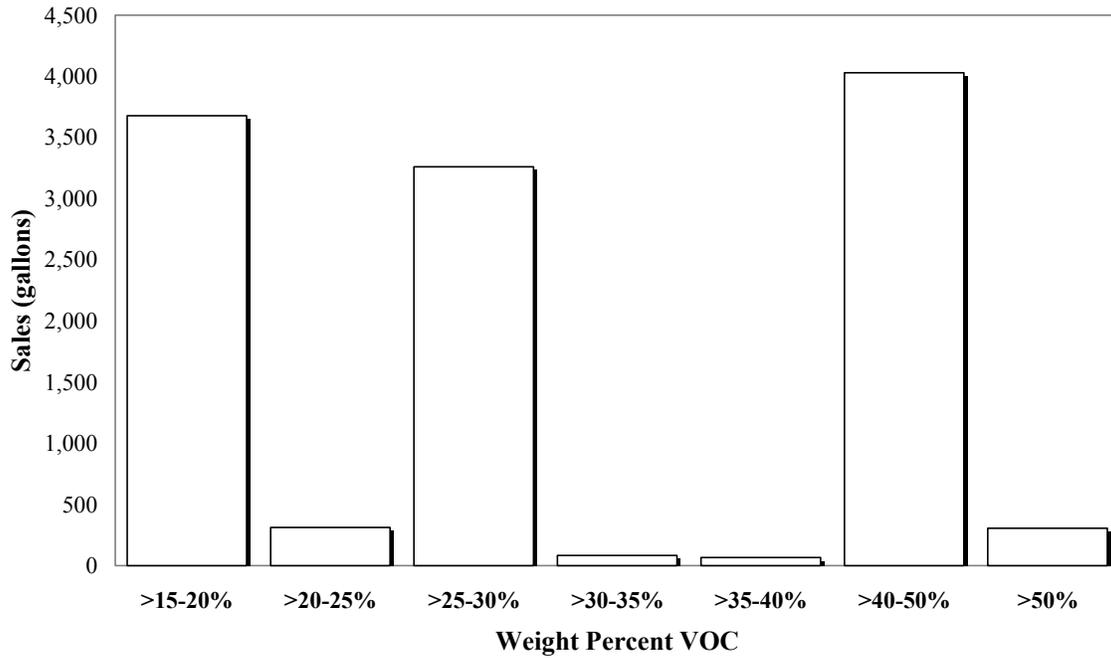


Figure 4-10a
Industrial Maintenance

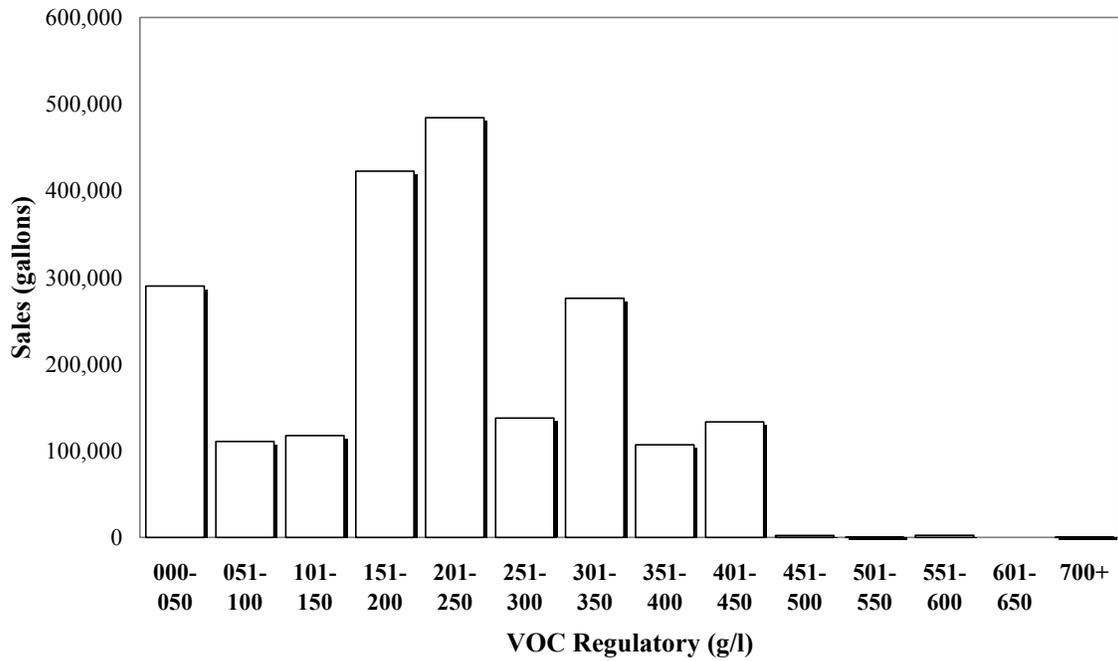


Figure 4-10b
Industrial Maintenance

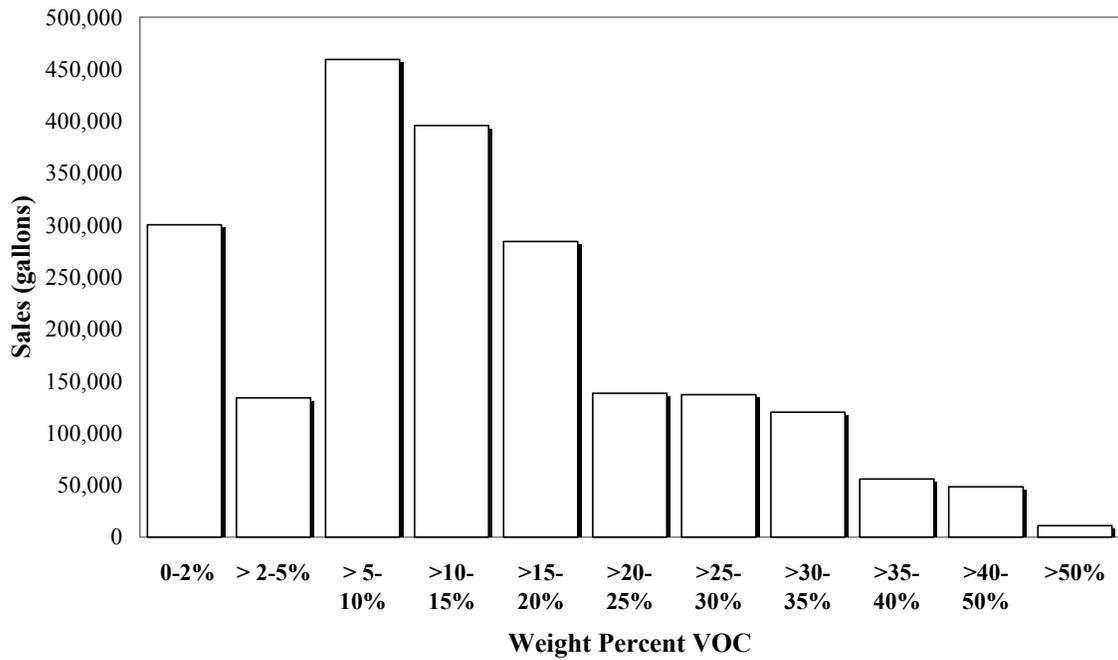


Figure 4-11a
Lacquers

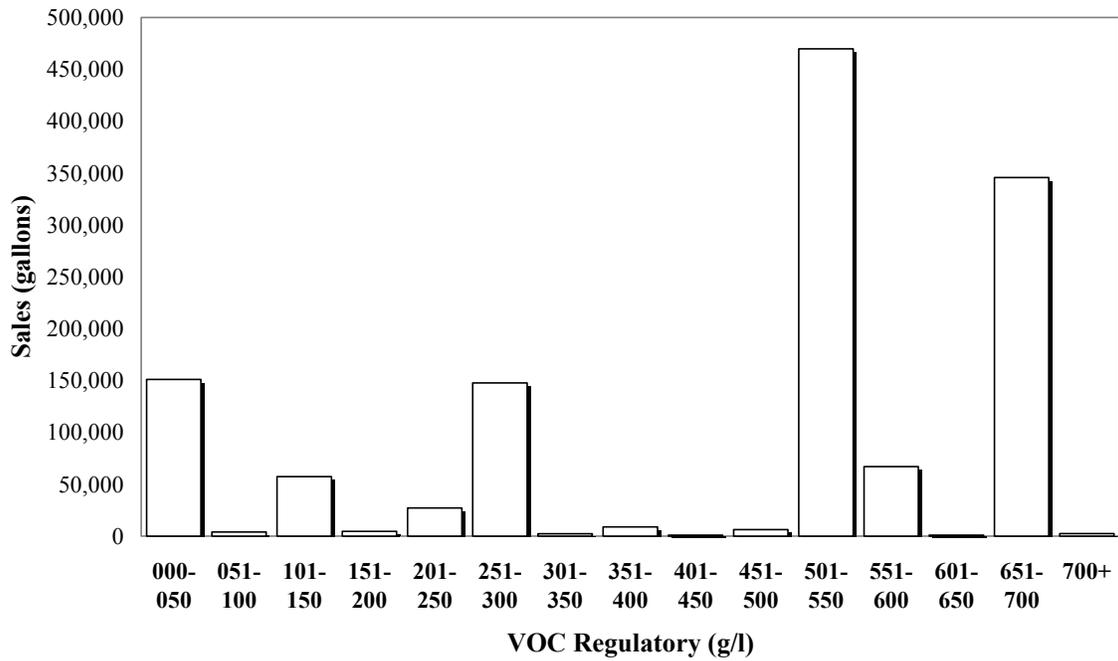


Figure 4-11b
Lacquers

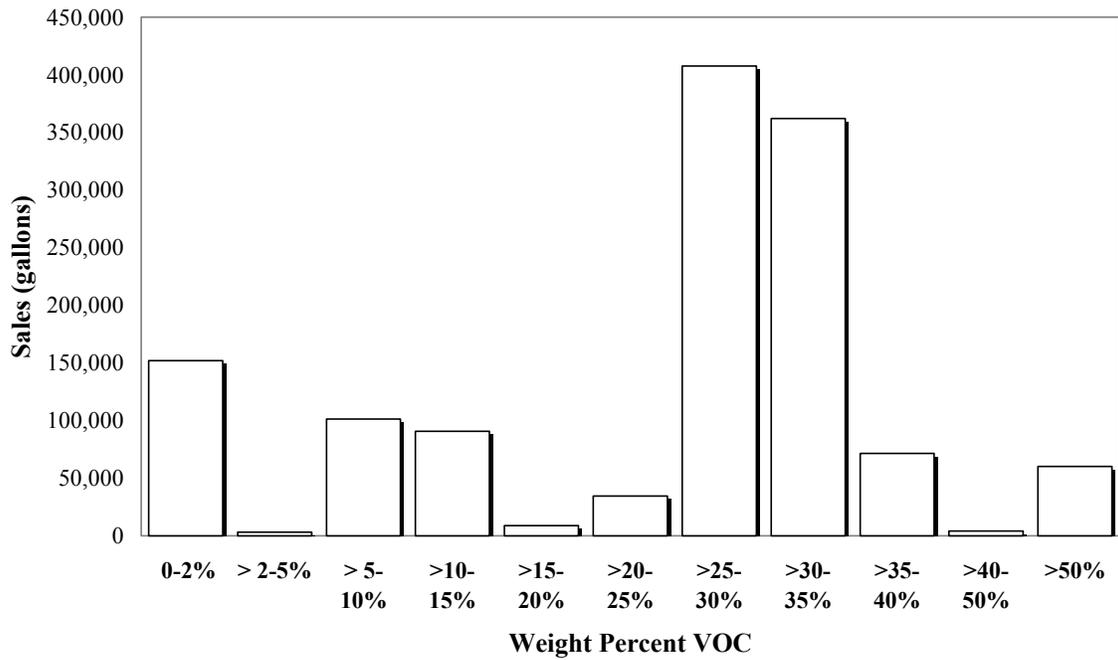


Figure 4-12a
Low Solids

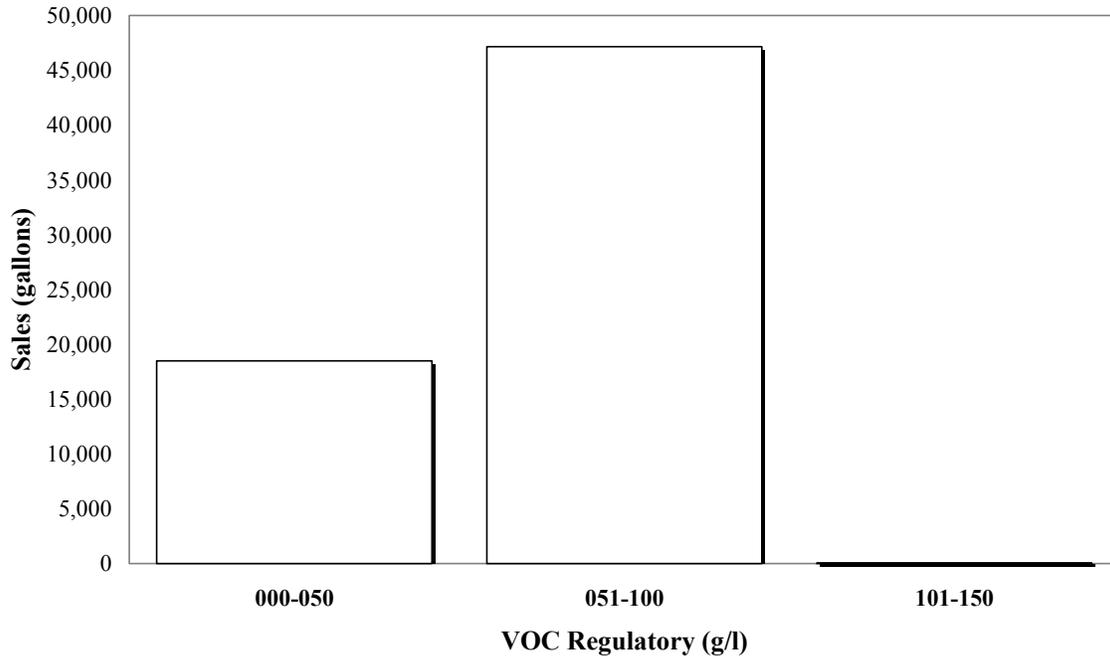
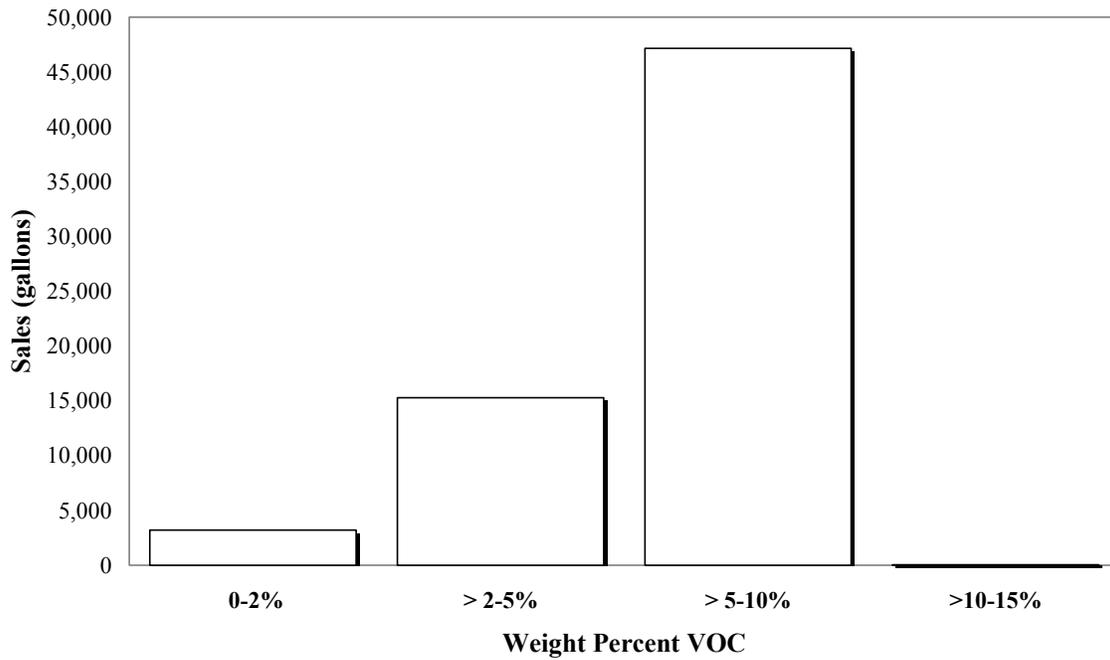


Figure 4-12b
Low Solids



No figures are provided for **Magnesite Cement** or **Mastic Texture** coatings, because sales data are protected.

Figure 4-13a
Metallic Pigmented

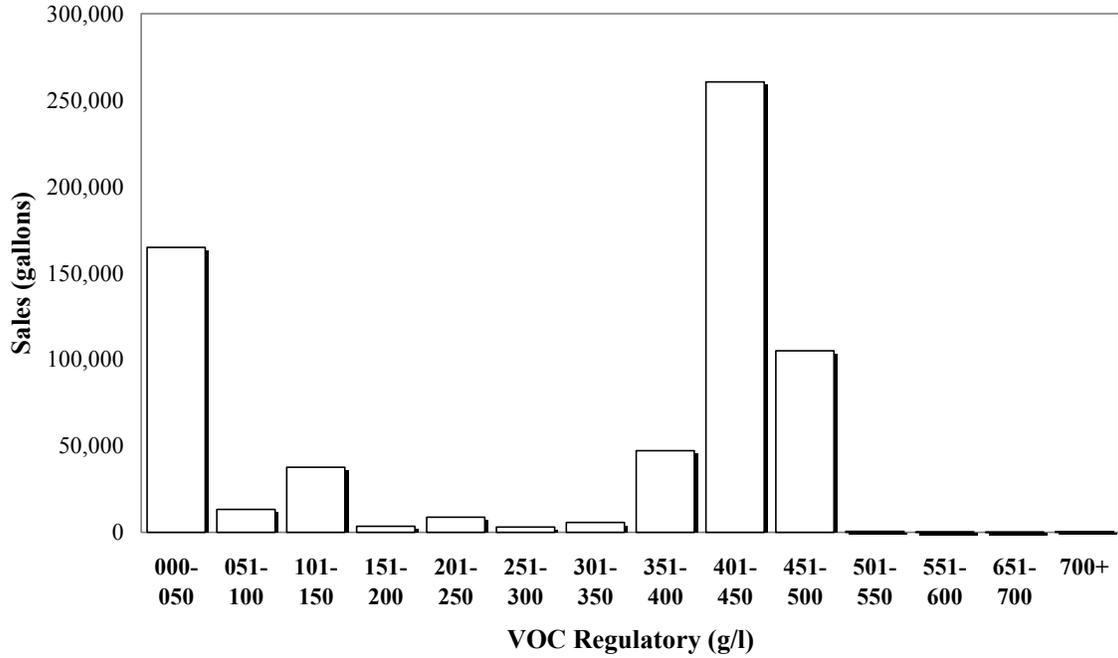
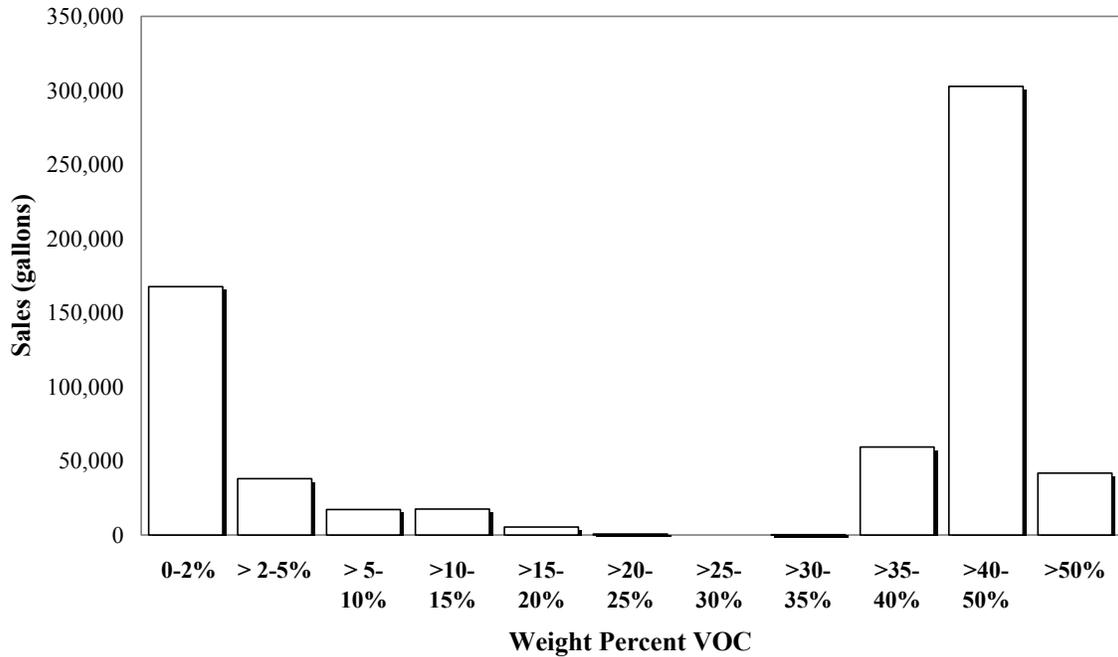


Figure 4-13b
Metallic Pigmented



No figures are provided for **Multi-Color** coatings, because sales data are protected.

Figure 4-14a
Nonflat – High Gloss

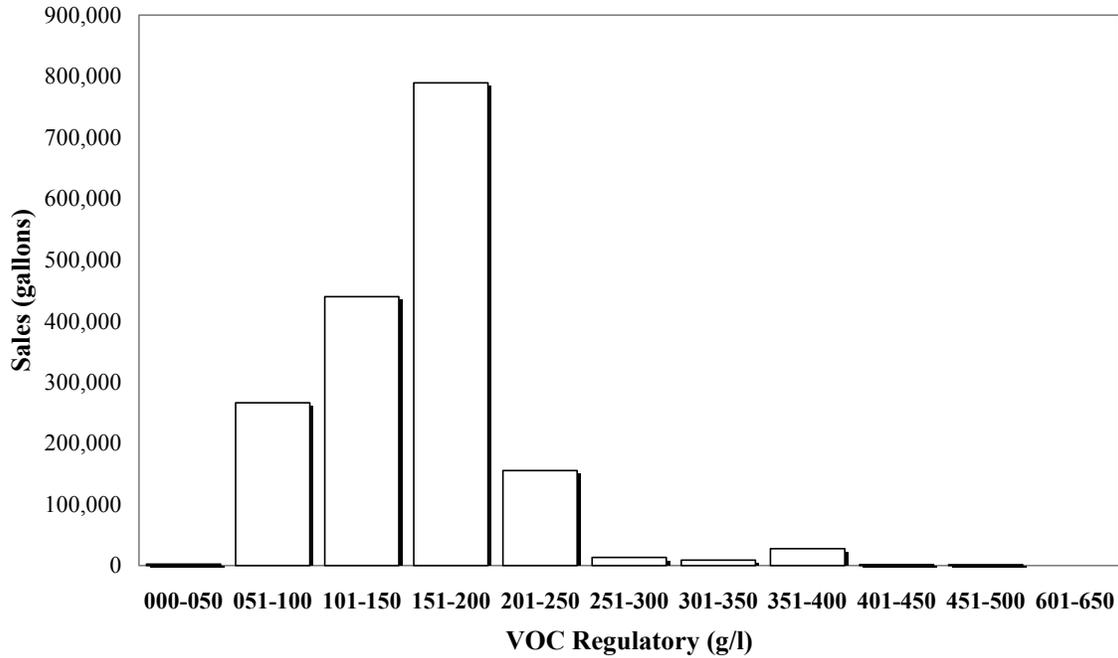


Figure 4-14b
Nonflat – High Gloss

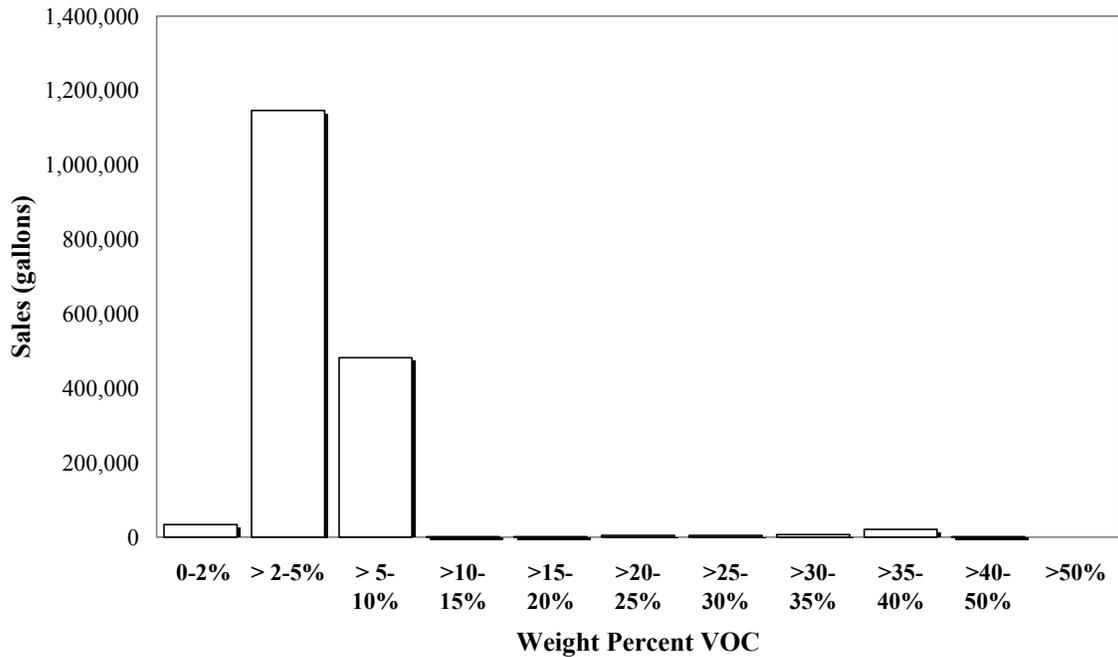


Figure 4-15a
Nonflat – Low Gloss

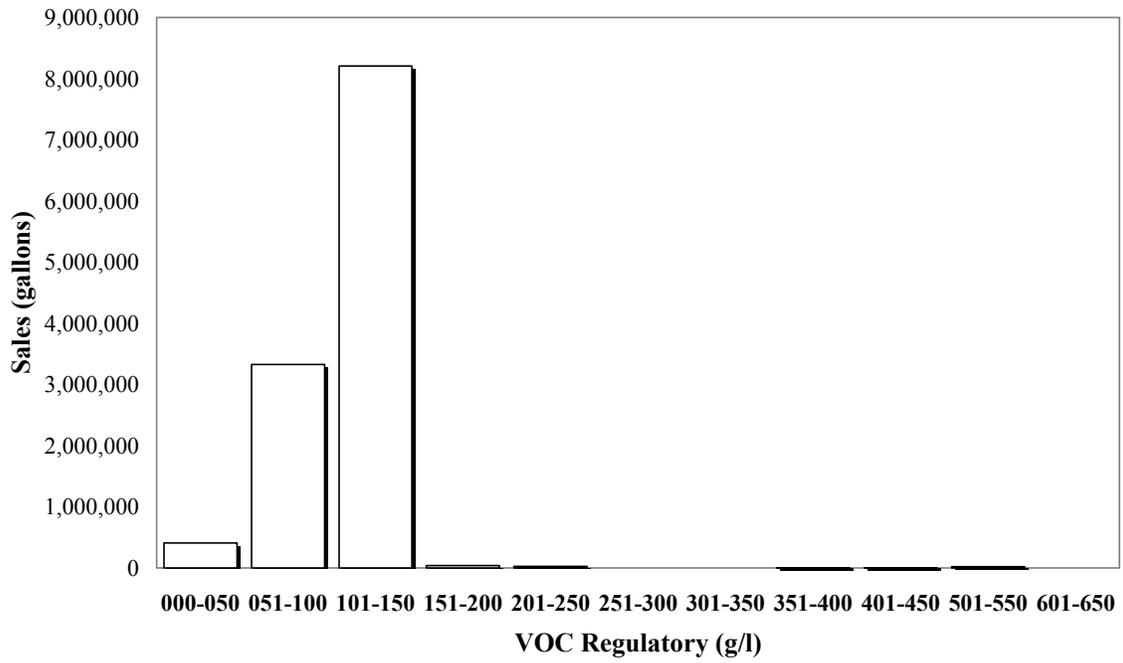


Figure 4-15b
Nonflat – Low Gloss

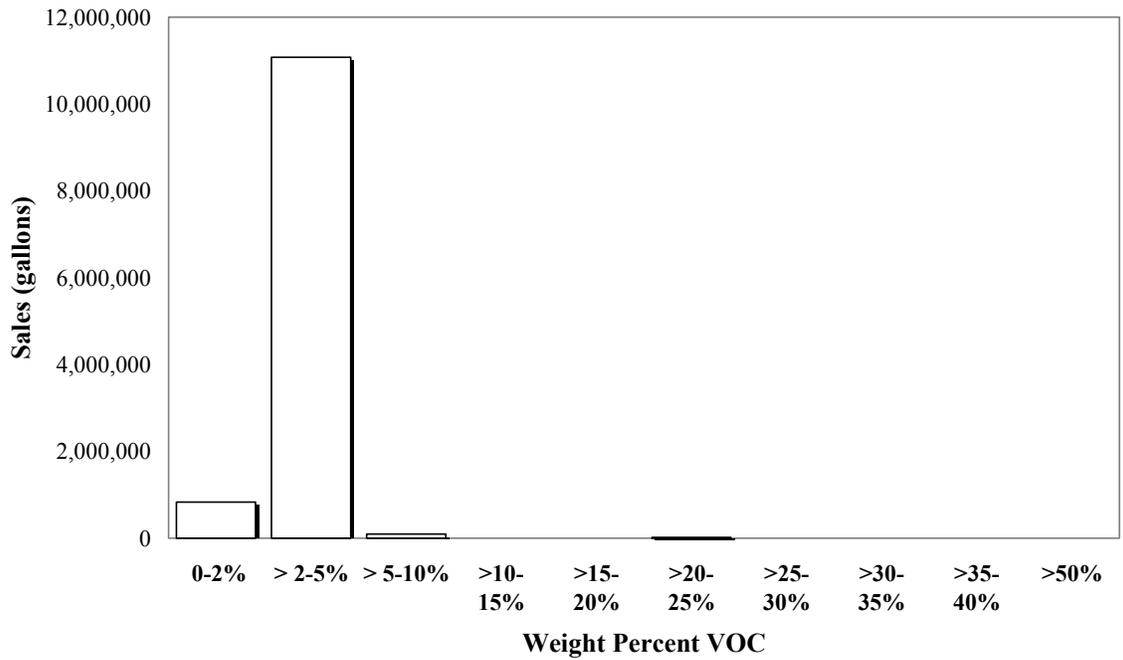


Figure 4-16a
Nonflat – Medium Gloss

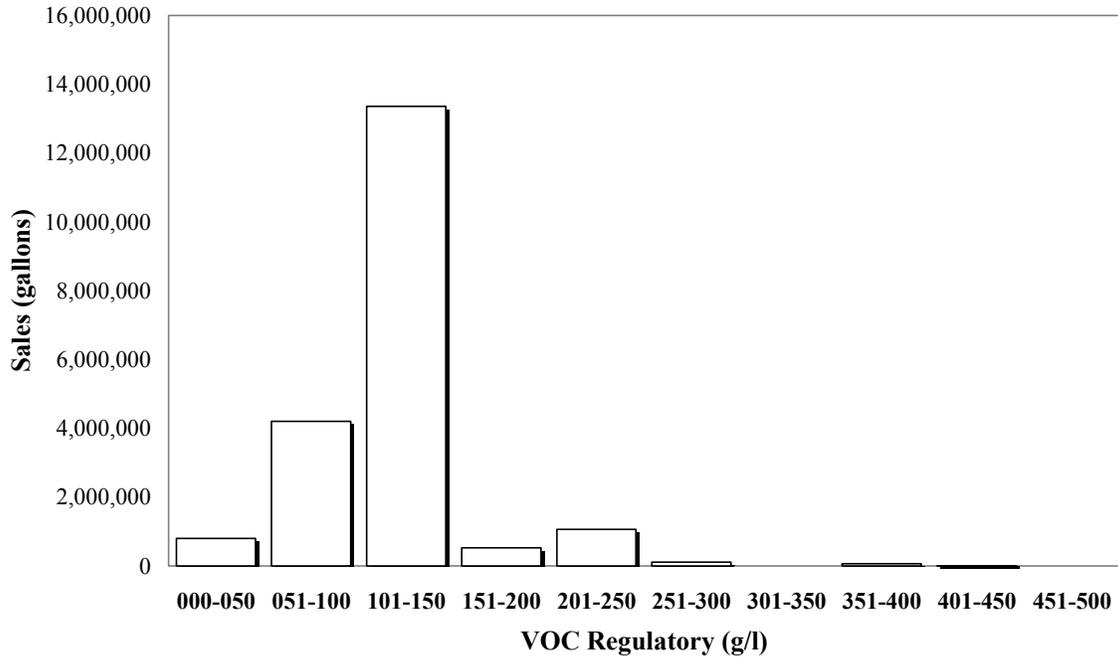


Figure 4-16b
Nonflat – Medium Gloss

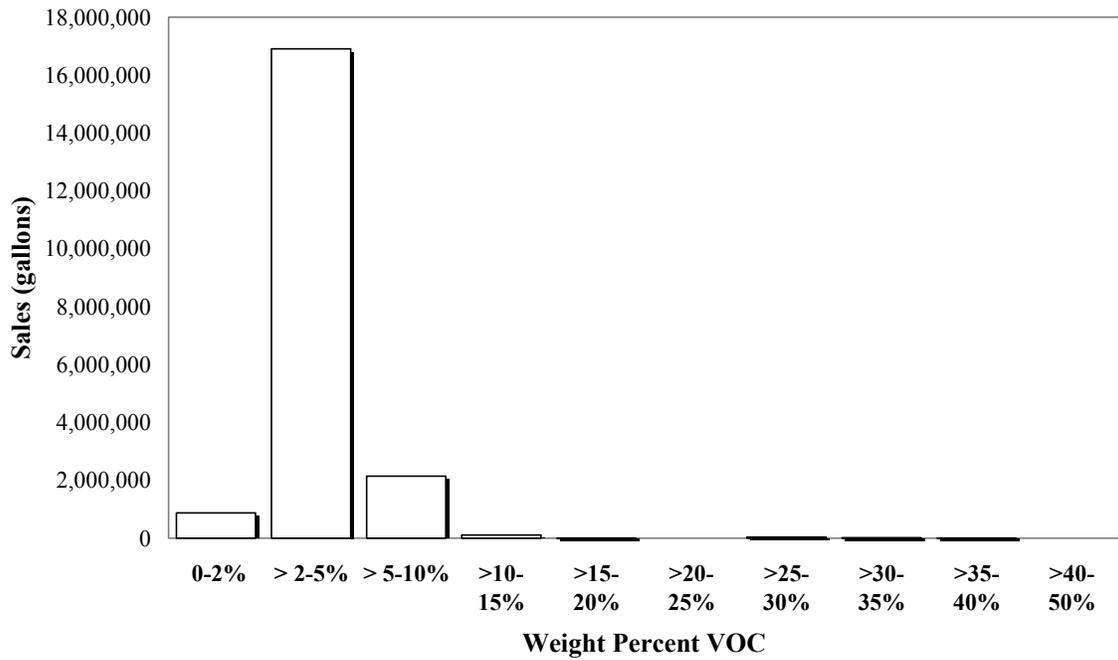


Figure 4-17a
Other

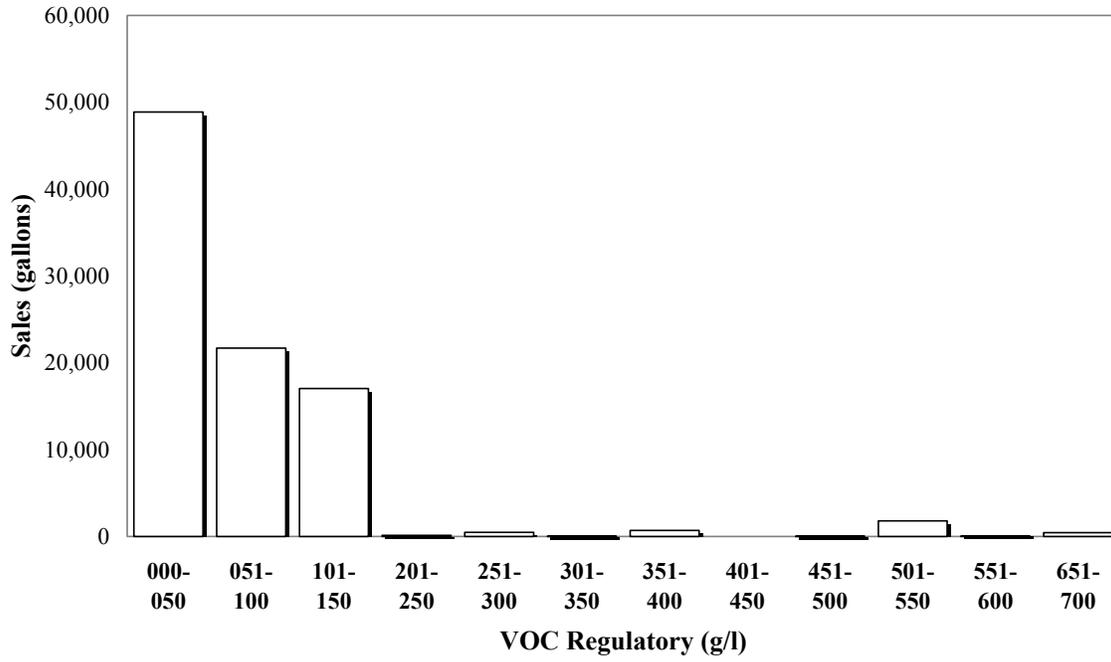


Figure 4-17b
Other

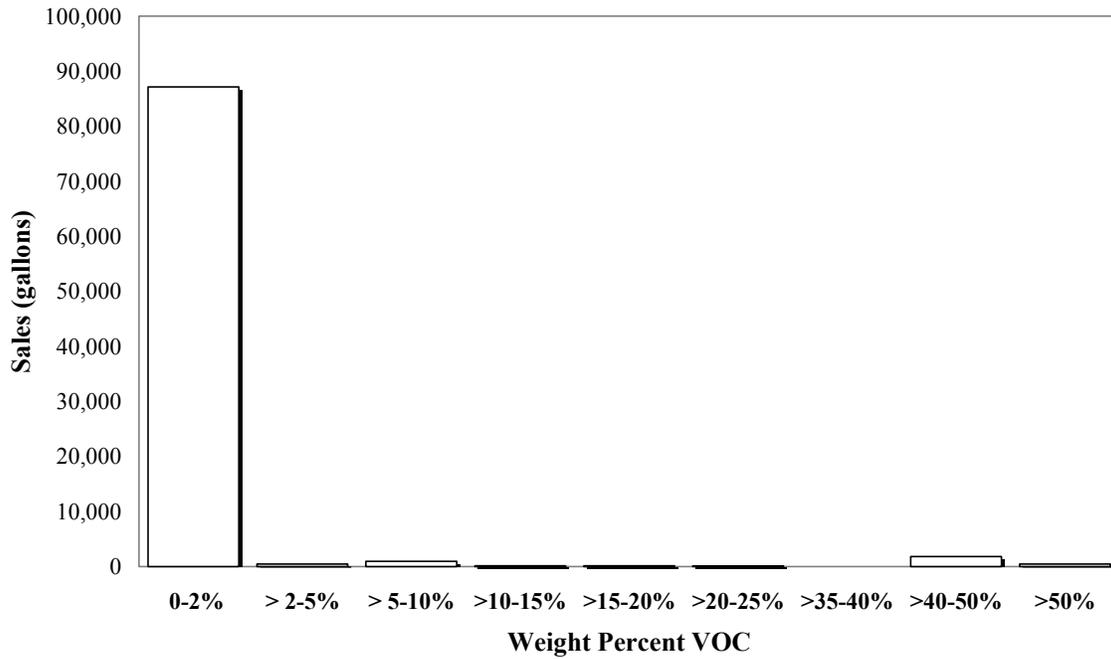


Figure 4-18a
Pre-Treatment Wash Primer

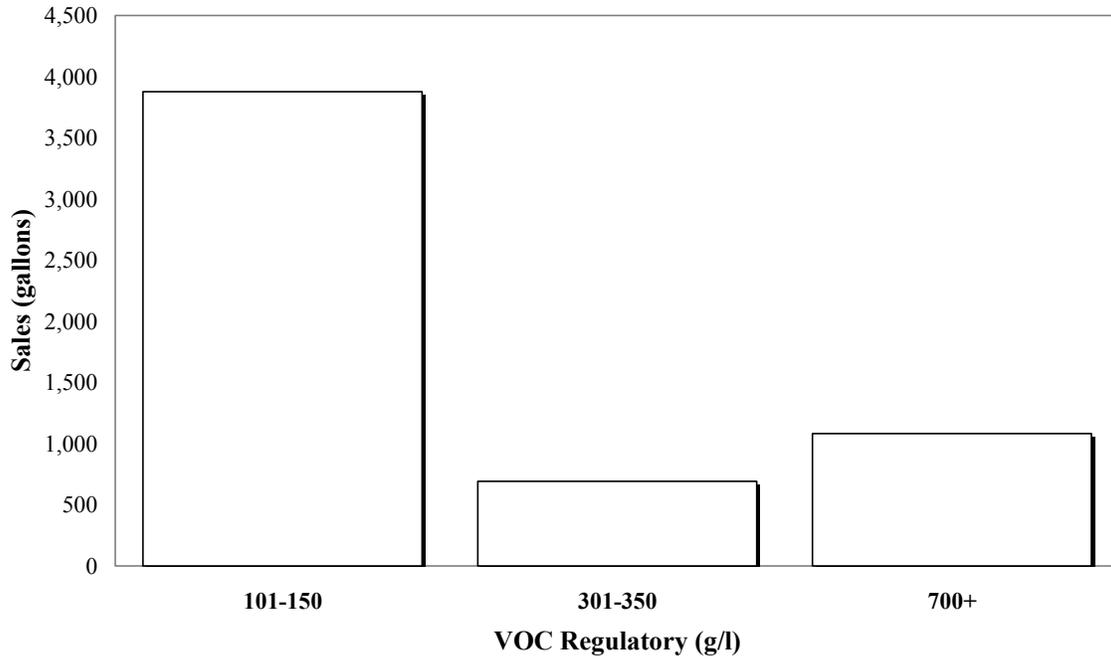


Figure 4-18b
Pre-Treatment Wash Primer

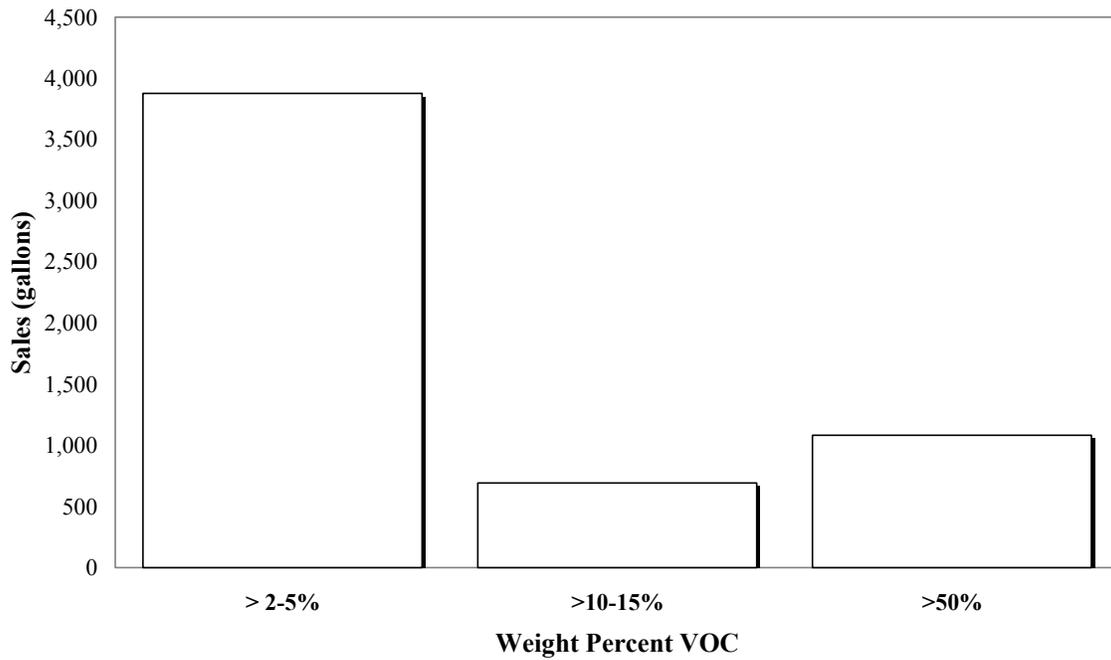


Figure 4-19a
Primer, Sealer and Undercoater

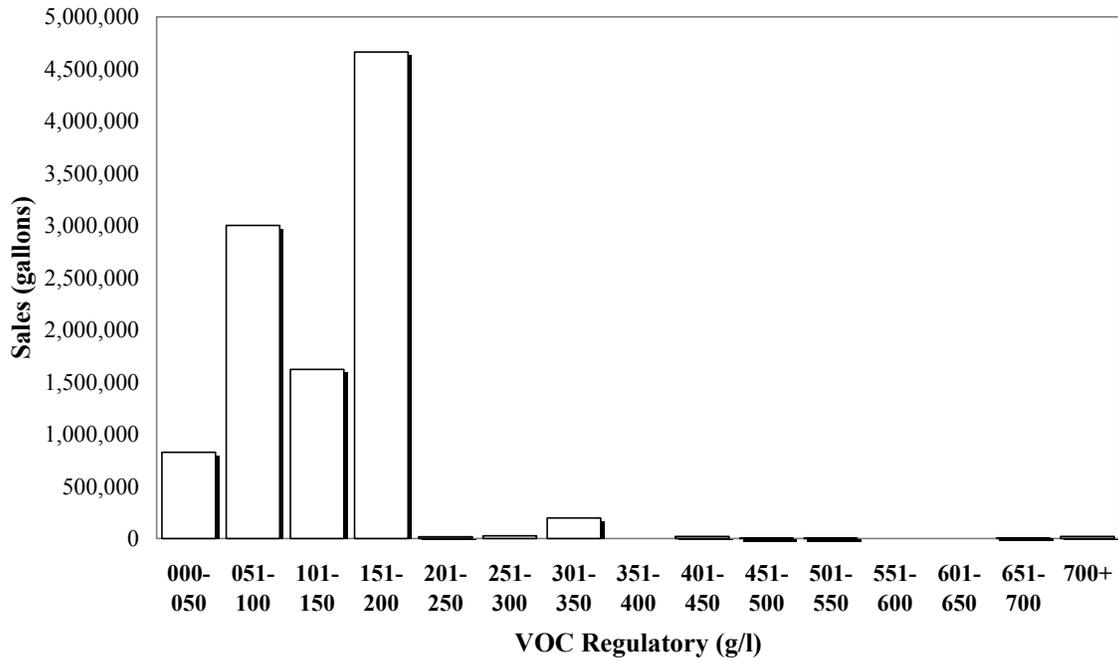


Figure 4-19b
Primer, Sealer and Undercoater

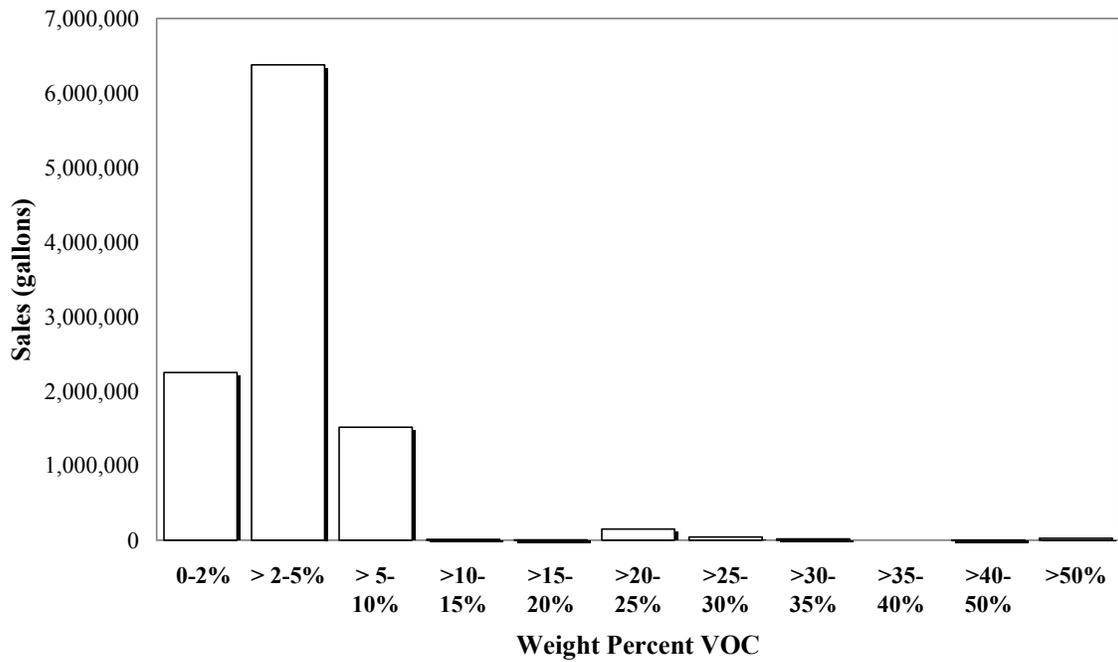


Figure 4-20a
Quick Dry Enamel

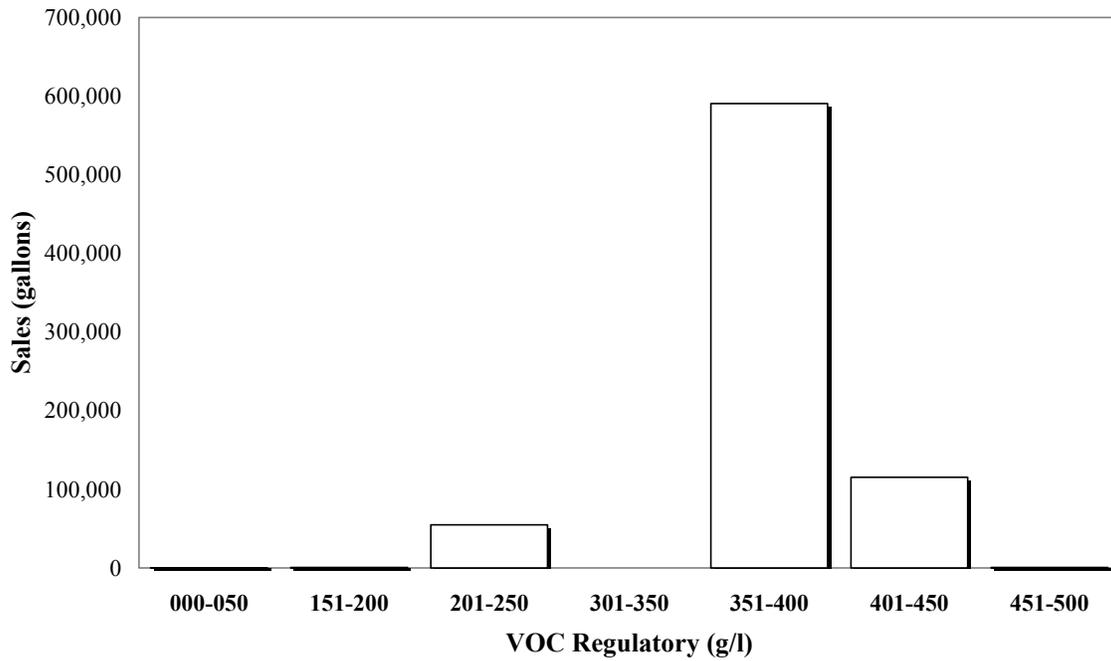


Figure 4-20b
Quick Dry Enamel

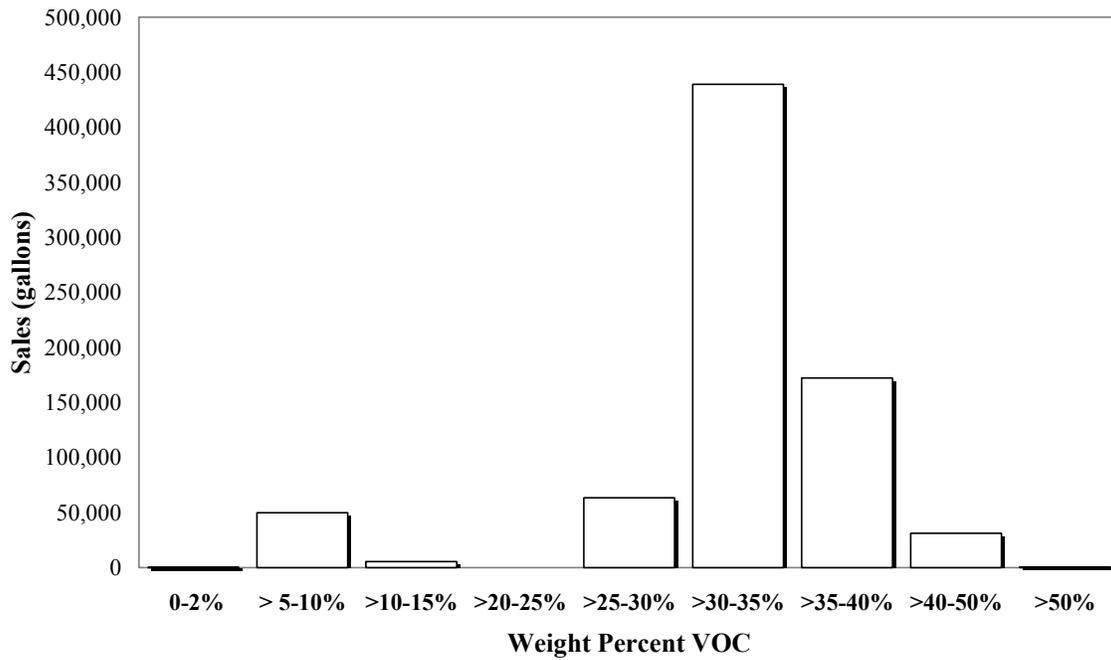


Figure 4-21a
Quick Dry Primer, Sealer and Undercoater

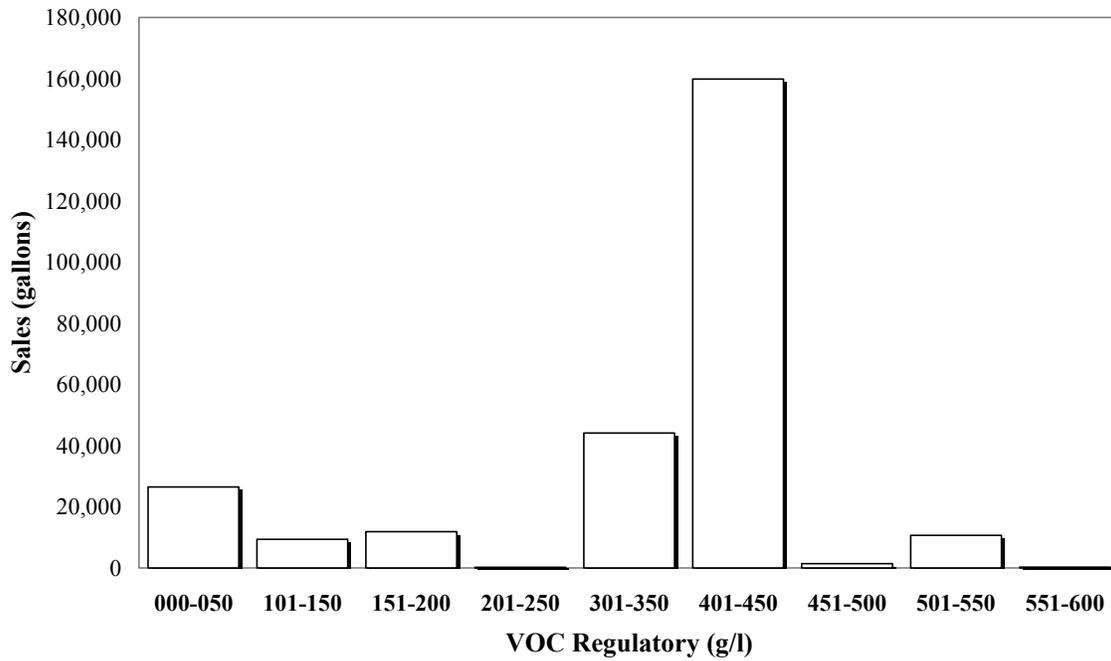
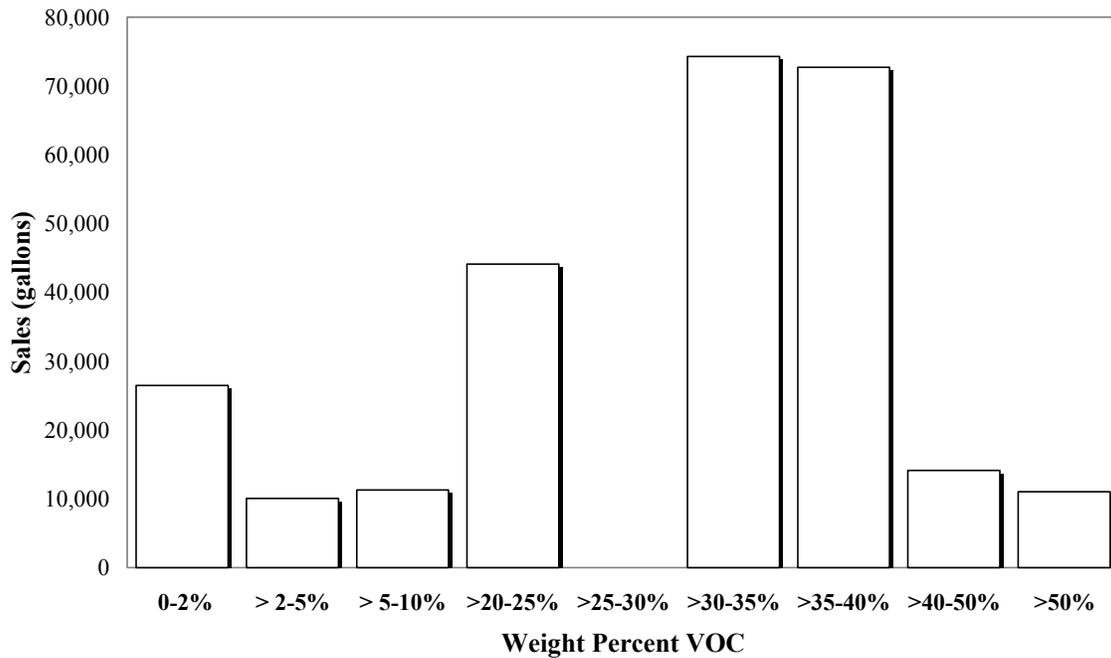


Figure 4-21b
Quick Dry Primer, Sealer and Undercoater



No figures are provided for **Recycled** coatings, because sales data are protected and weight percent data is incomplete, due to the lack of data for Recycled coatings.

Figure 4-22a
Roof

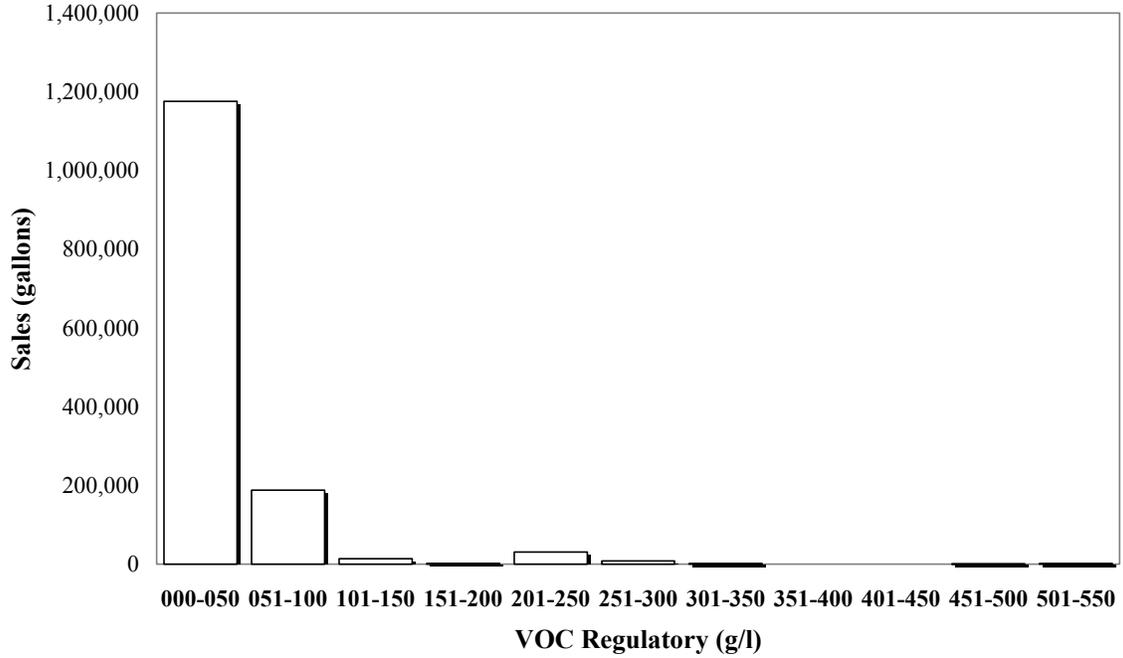


Figure 4-22b
Roof

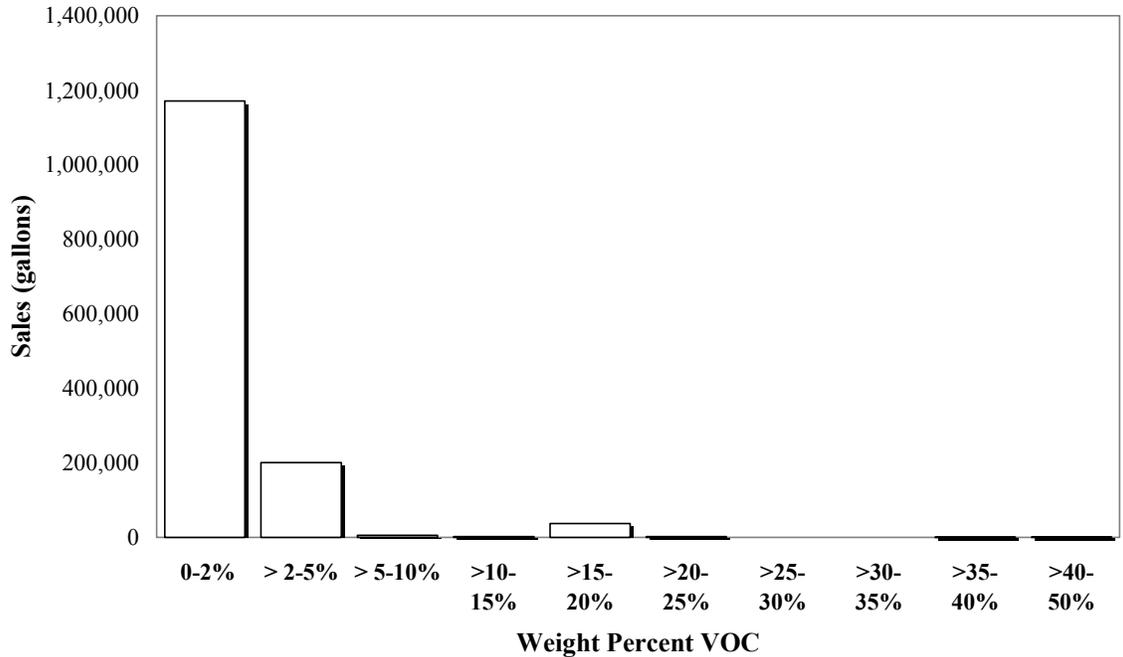


Figure 4-23a
Rust Preventative

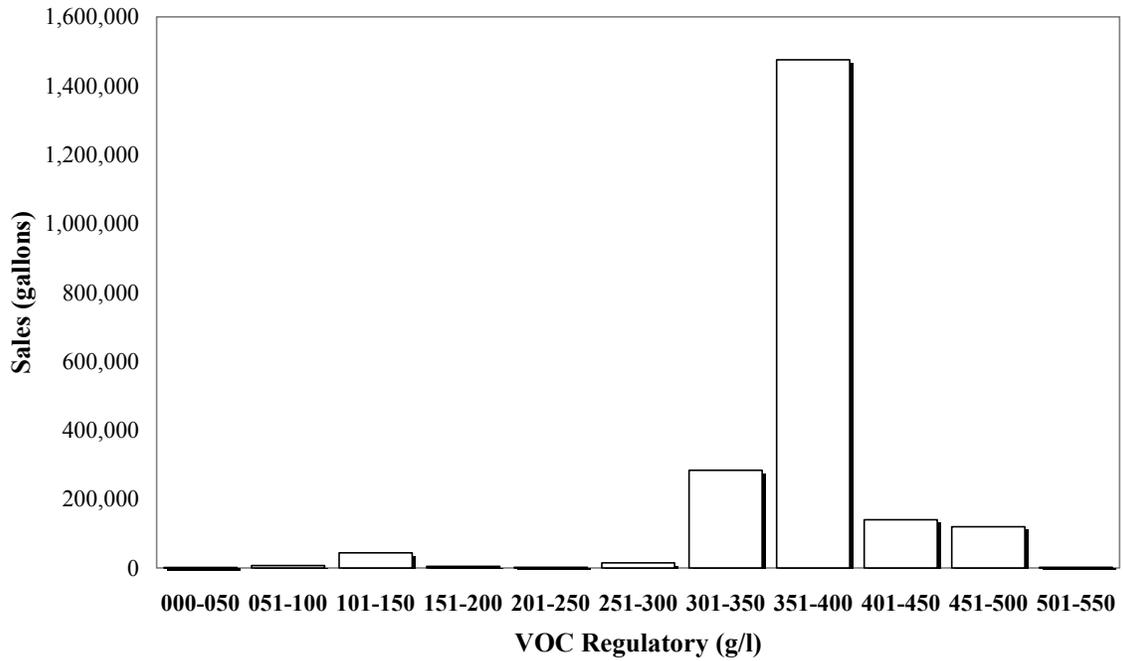


Figure 4-23b
Rust Preventative

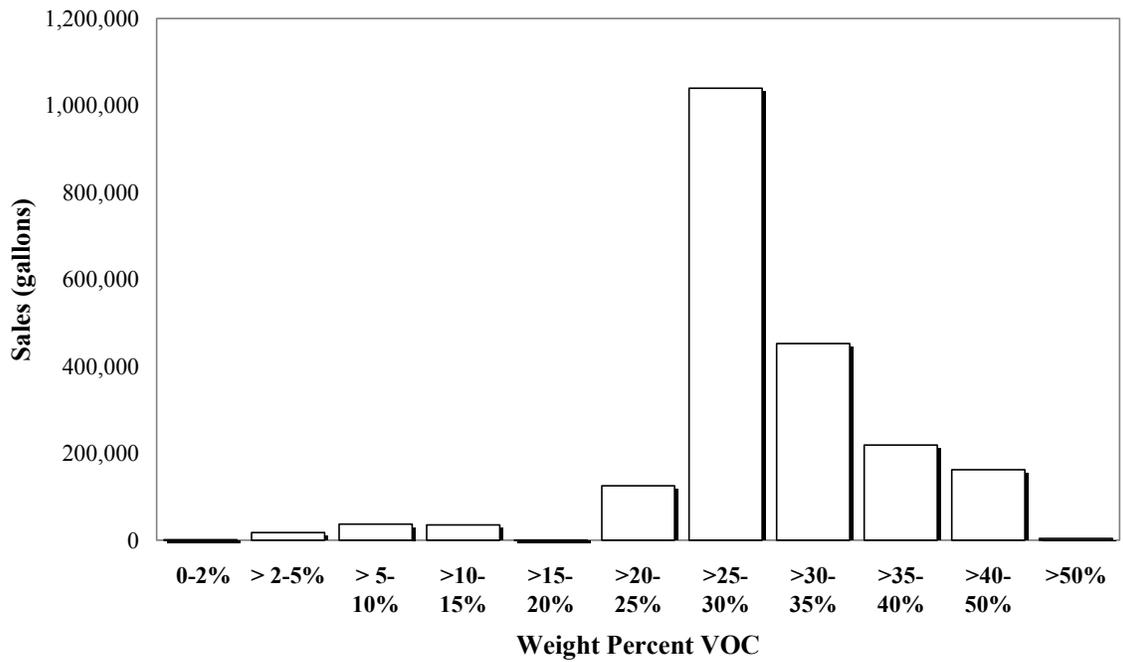


Figure 4-24a
Sanding Sealers

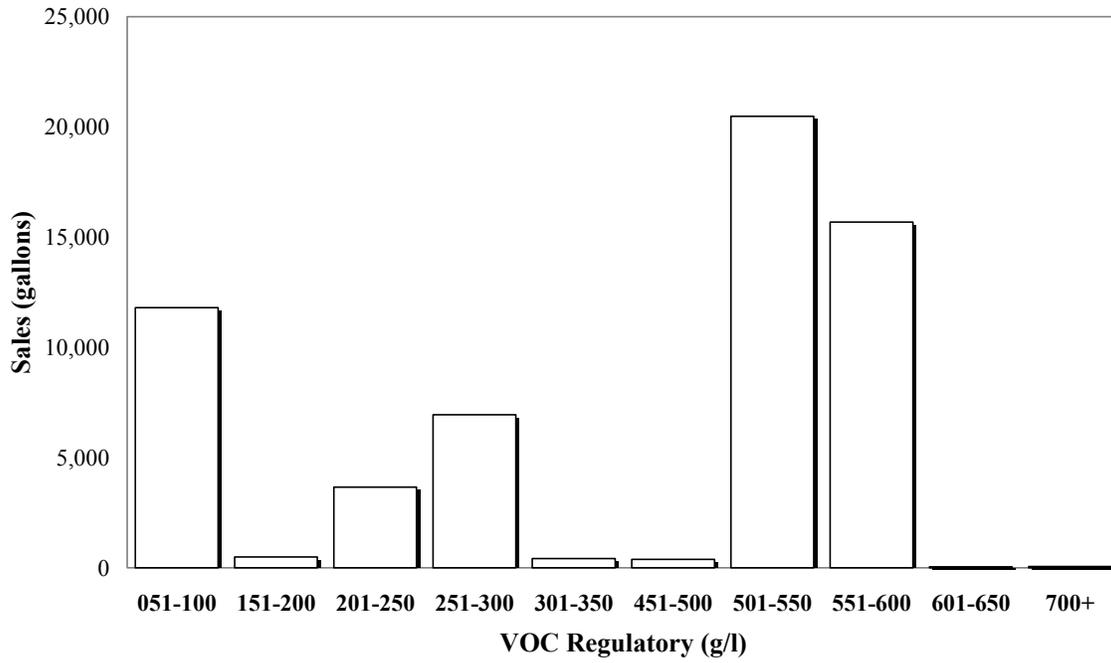
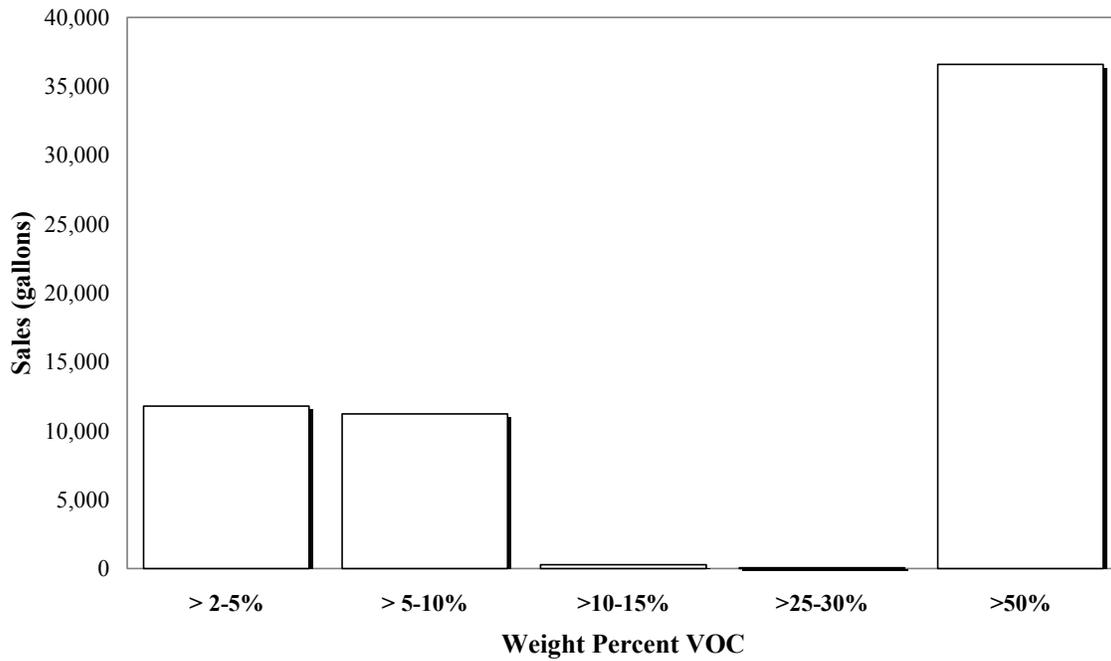


Figure 4-24b
Sanding Sealers



No figures are provided for **Shellacs (Clear or Opaque)**, because sales data are protected.

Figure 4-25a
Specialty Primer, Sealer and Undercoater

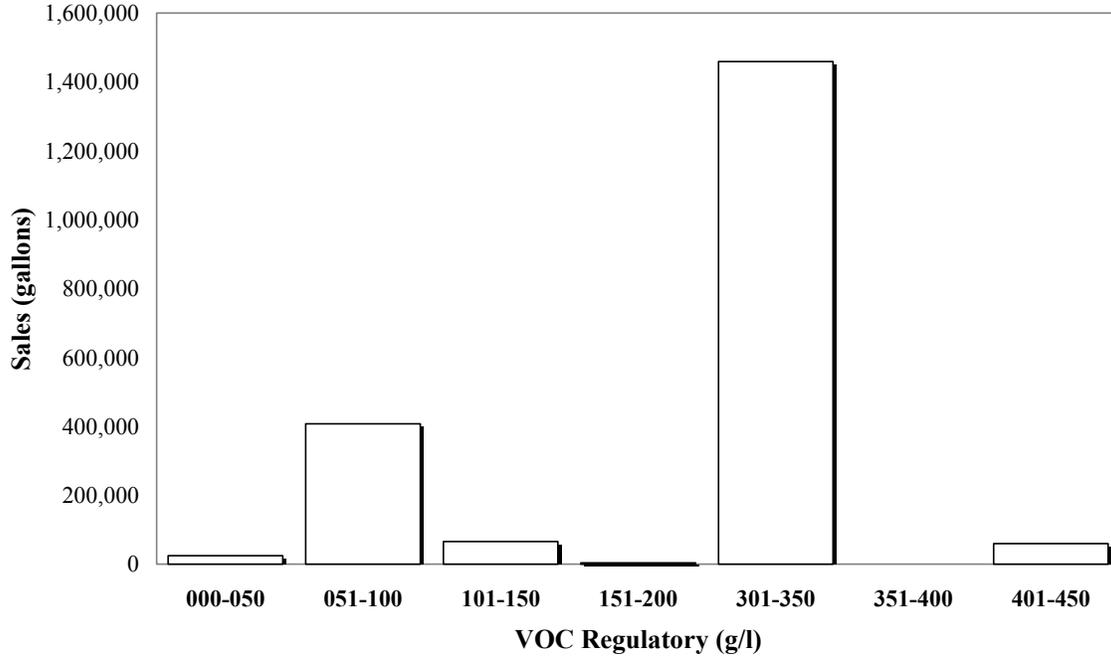


Figure 4-25b
Specialty Primer, Sealer and Undercoater

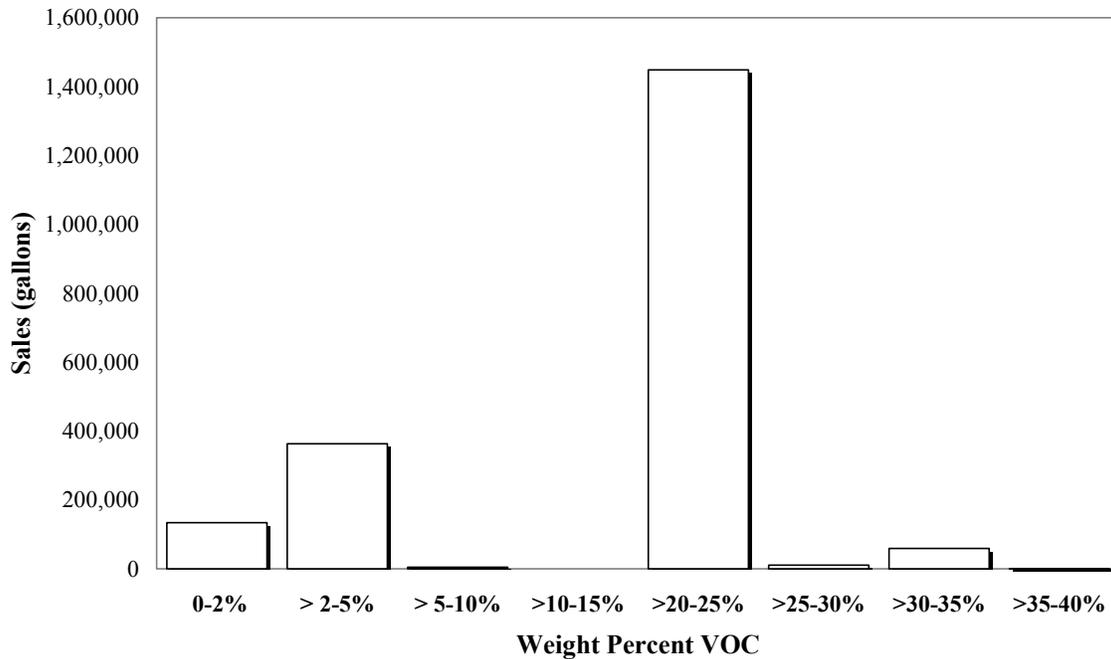


Figure 4-26a
Stains – Clear/Semitransparent

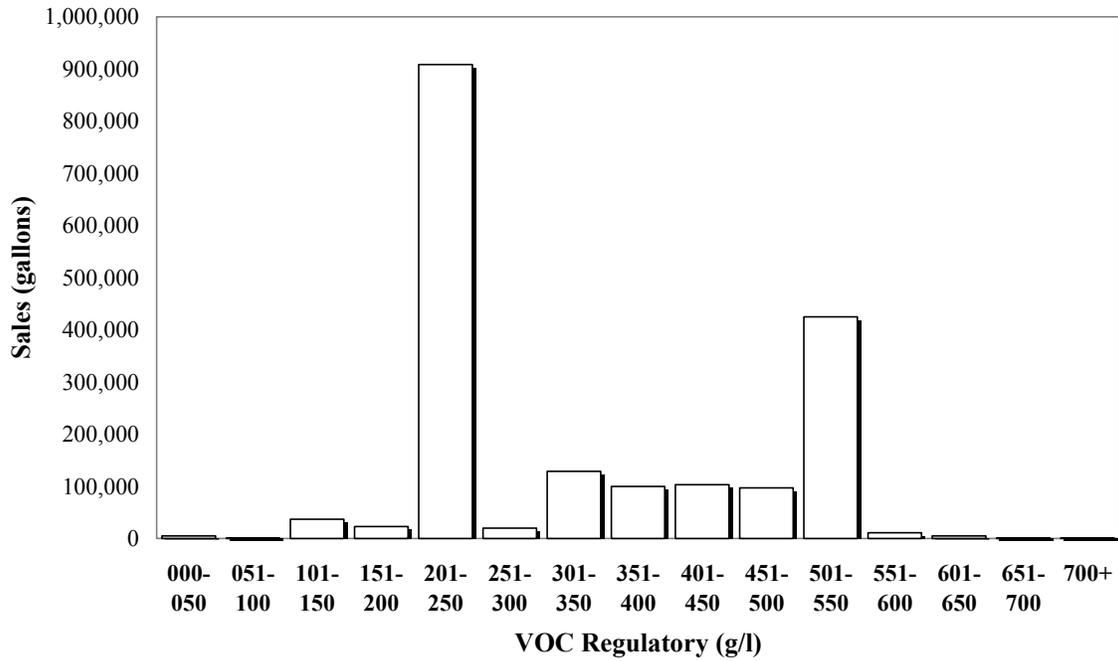


Figure 4-26b
Stains – Clear/Semitransparent

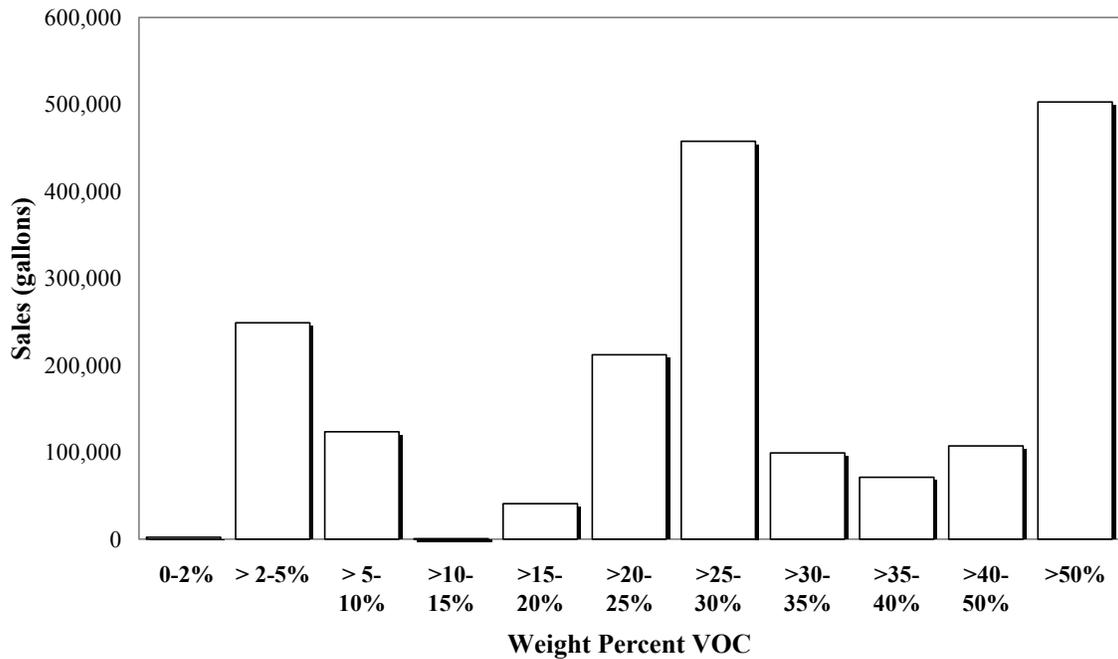


Figure 4-27a
Stains – Opaque

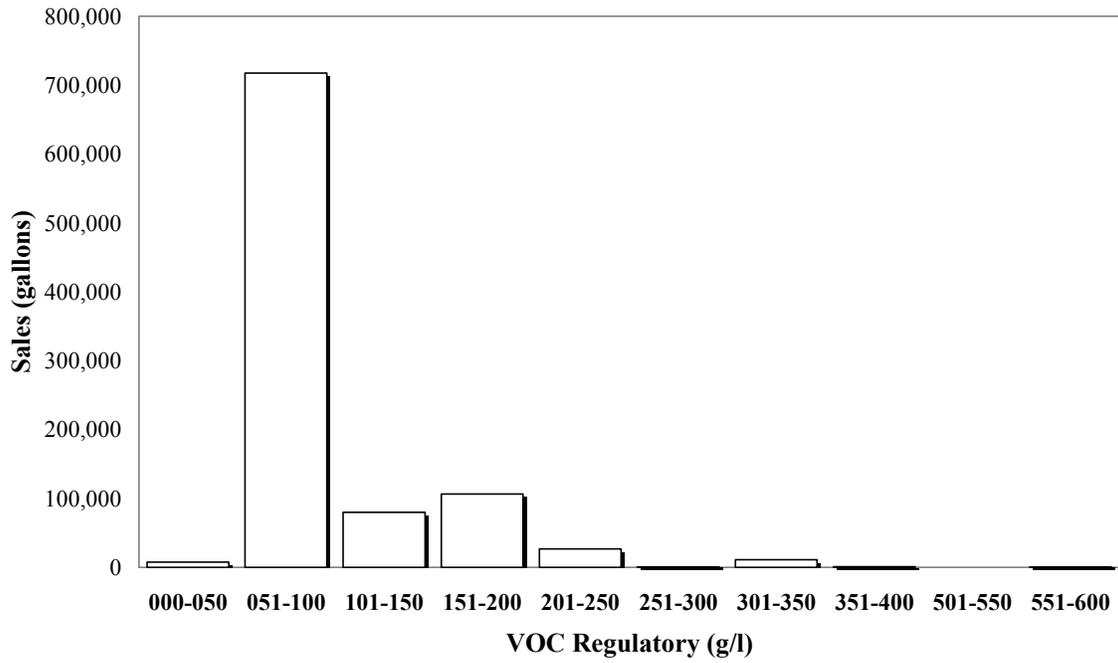
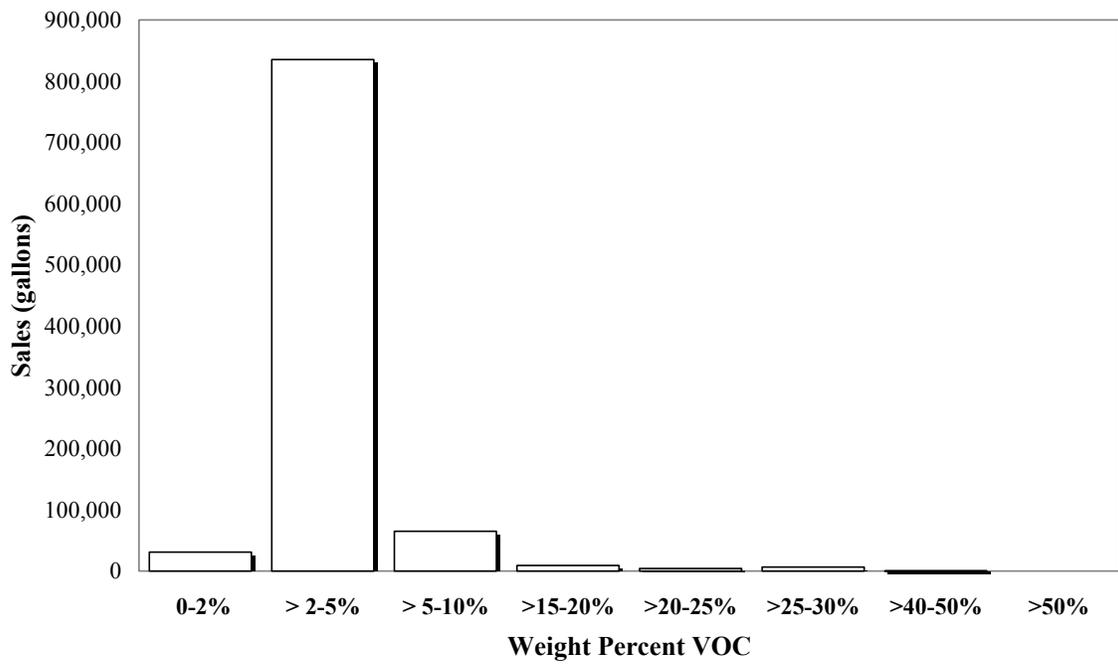


Figure 4-27b
Stains – Opaque



No figures are provided for **Swimming Pool** or **Swimming Pool Repair and Maintenance** coatings, because sales data are protected.

Figure 4-28a
Traffic Marking

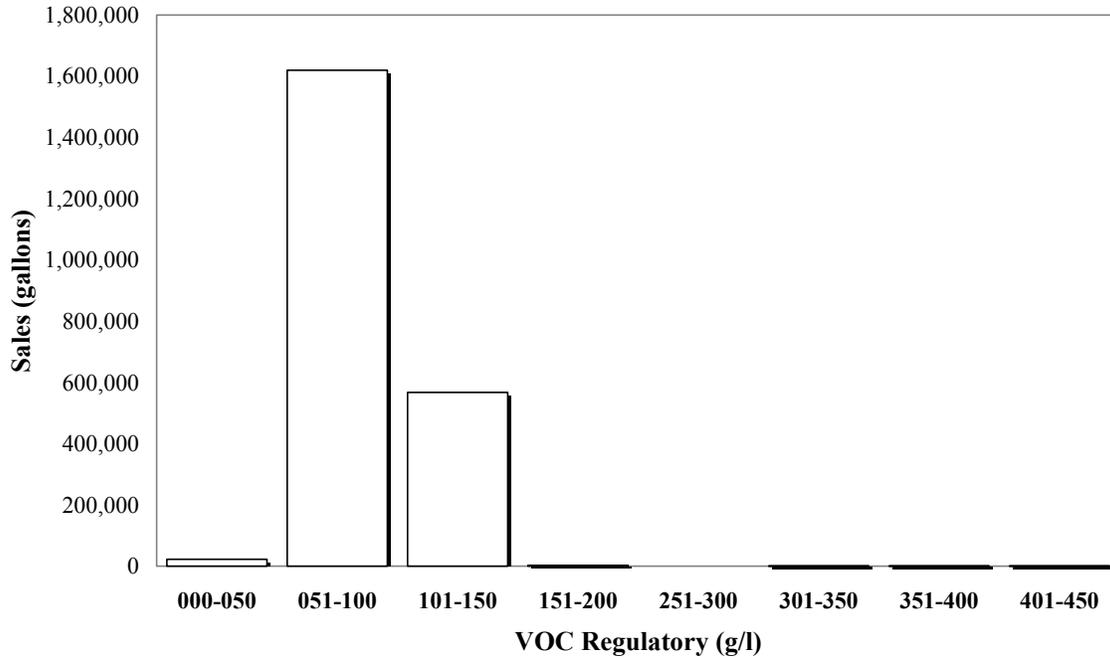


Figure 4-28b
Traffic Marking

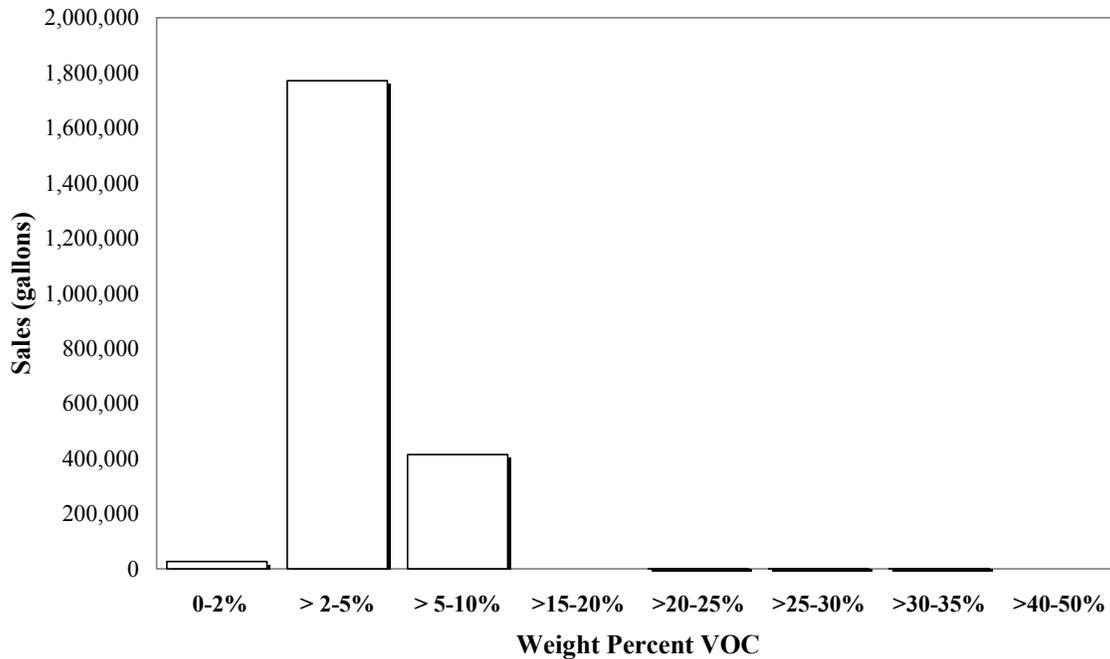


Figure 4-29a
Varnishes – Clear

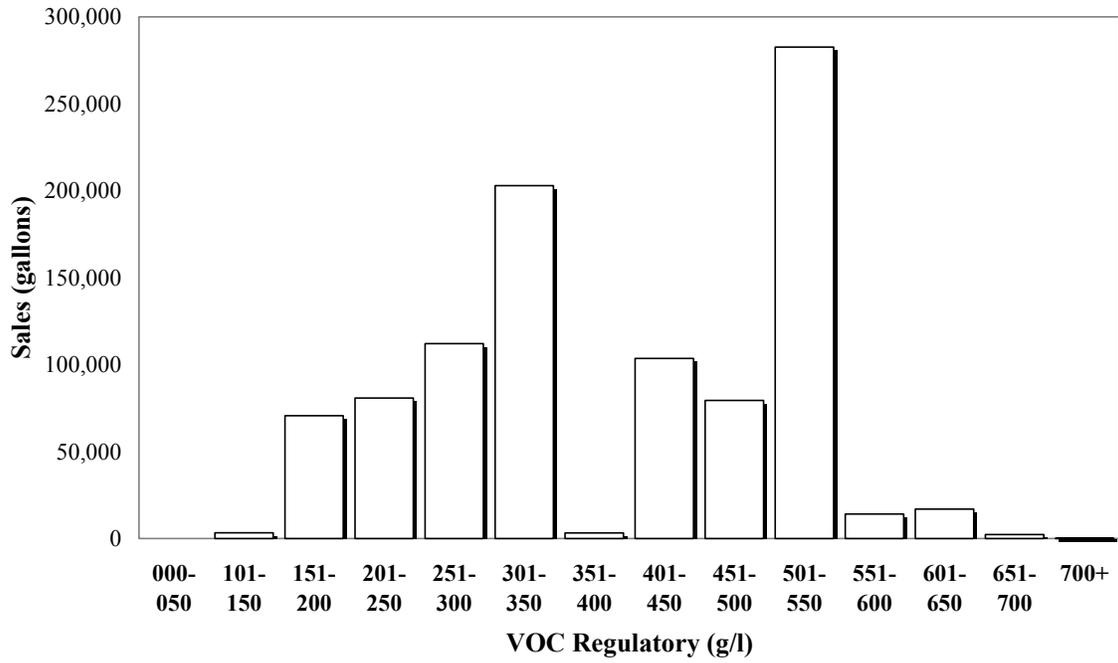


Figure 4-29b
Varnishes – Clear

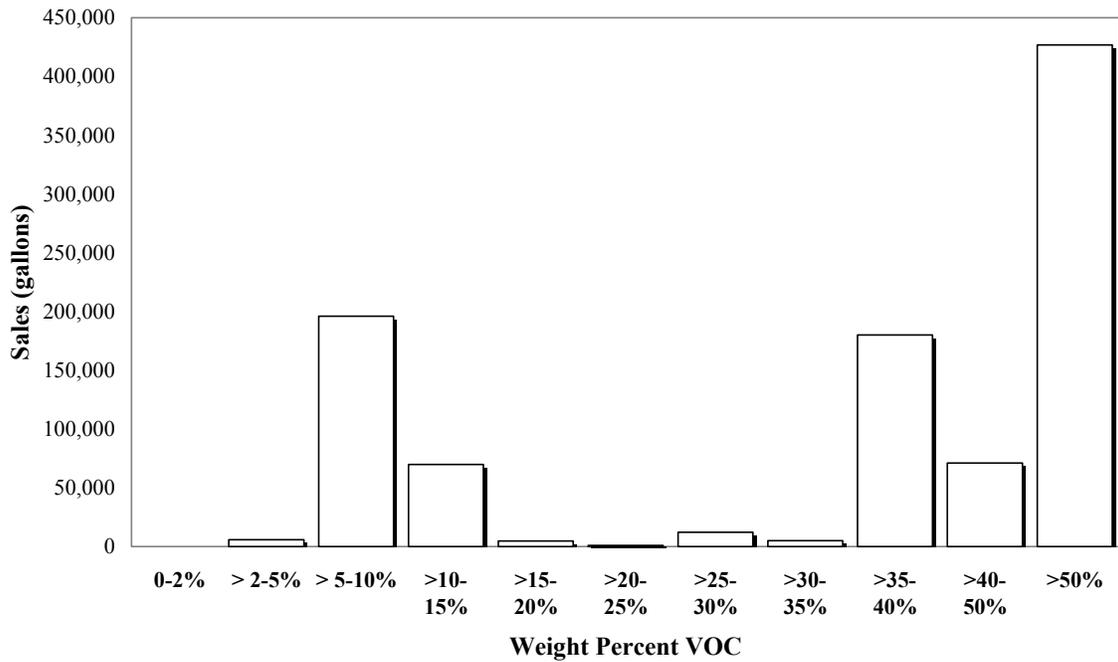


Figure 4-30a
Varnishes – Semitransparent

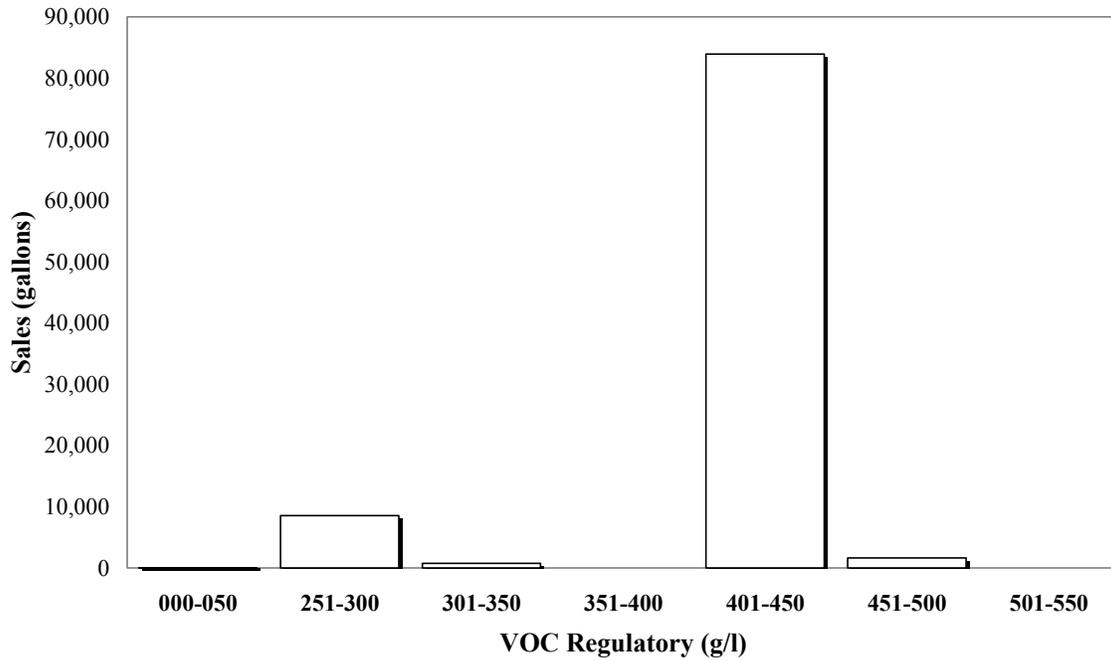


Figure 4-30b
Varnishes – Semitransparent

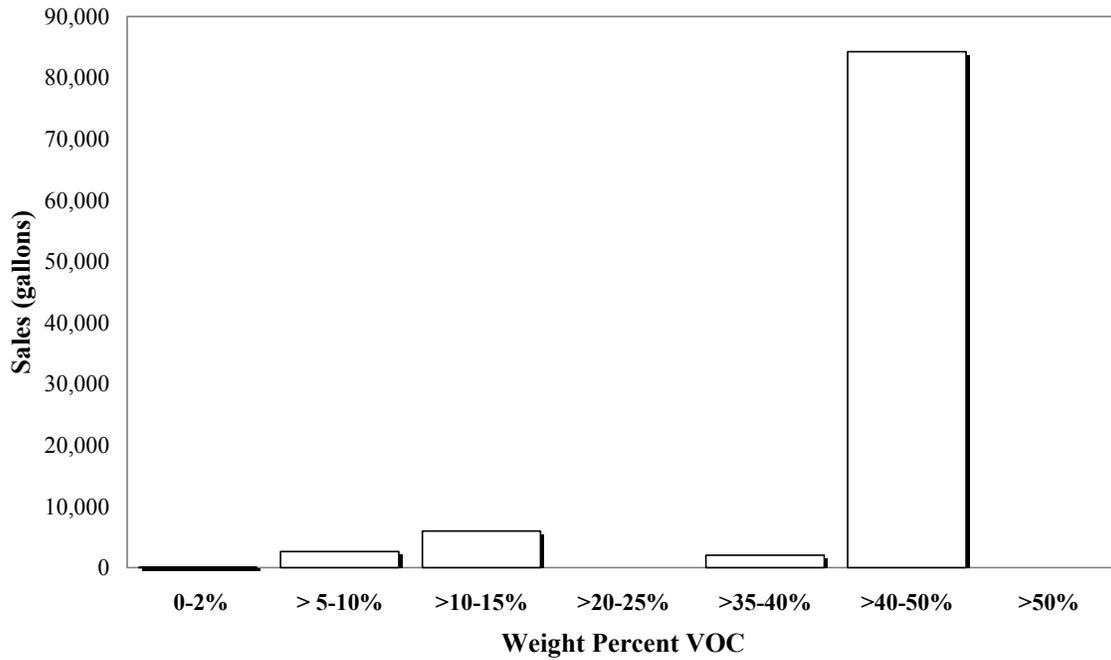


Figure 4-31a
Waterproofing Concrete/Masonry Sealers

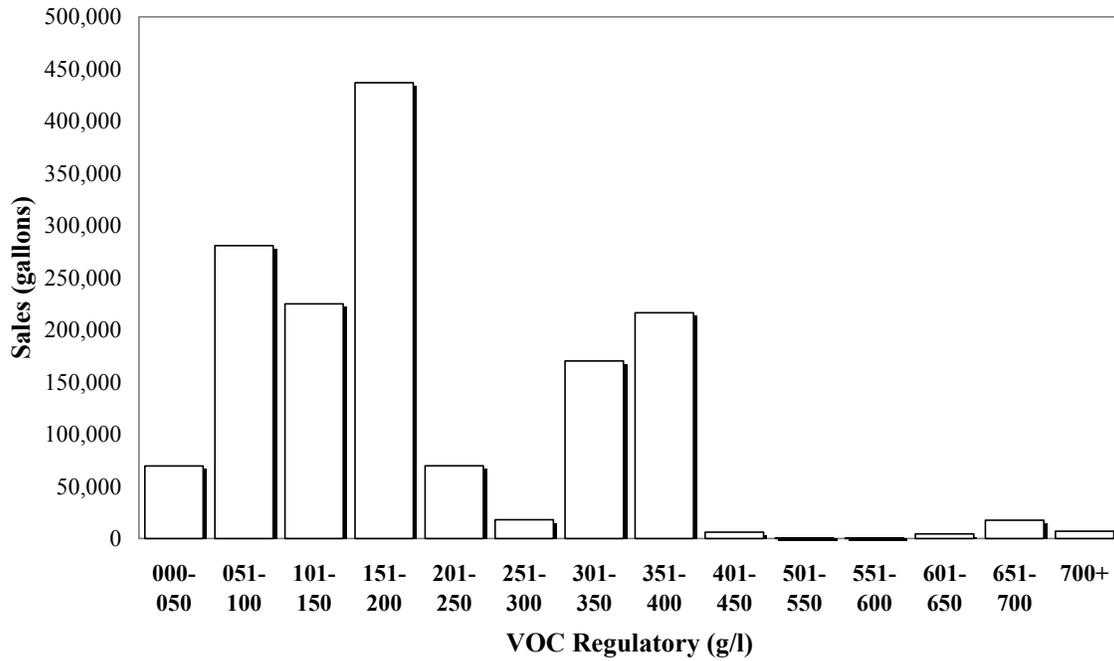


Figure 4-31b
Waterproofing Concrete/Masonry Sealers

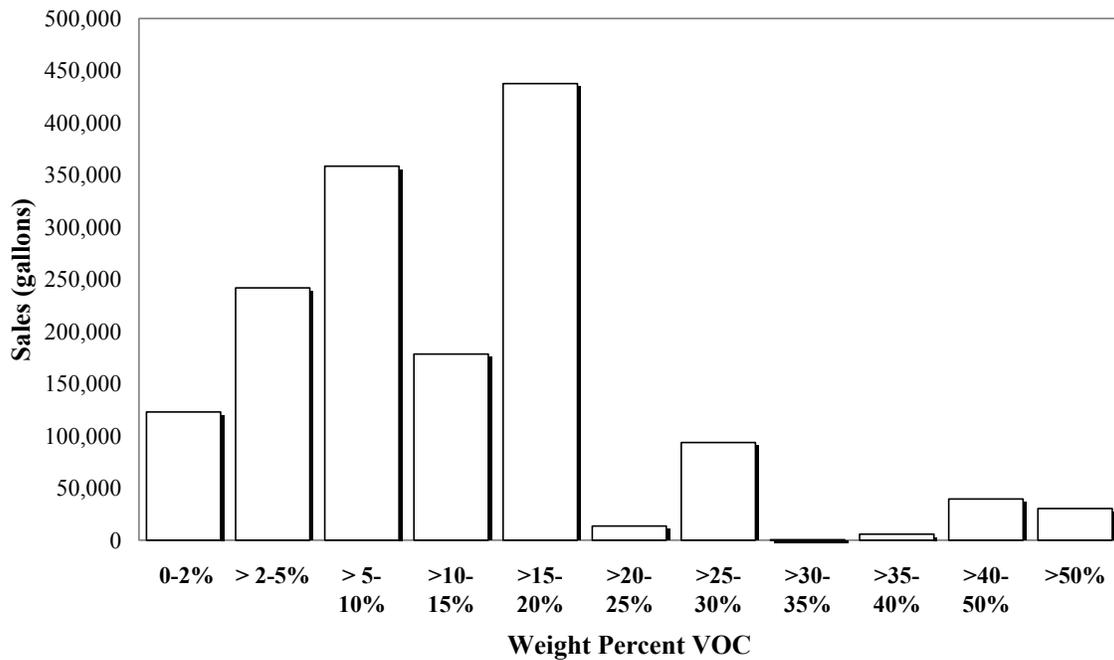


Figure 4-32a
Waterproofing Sealers

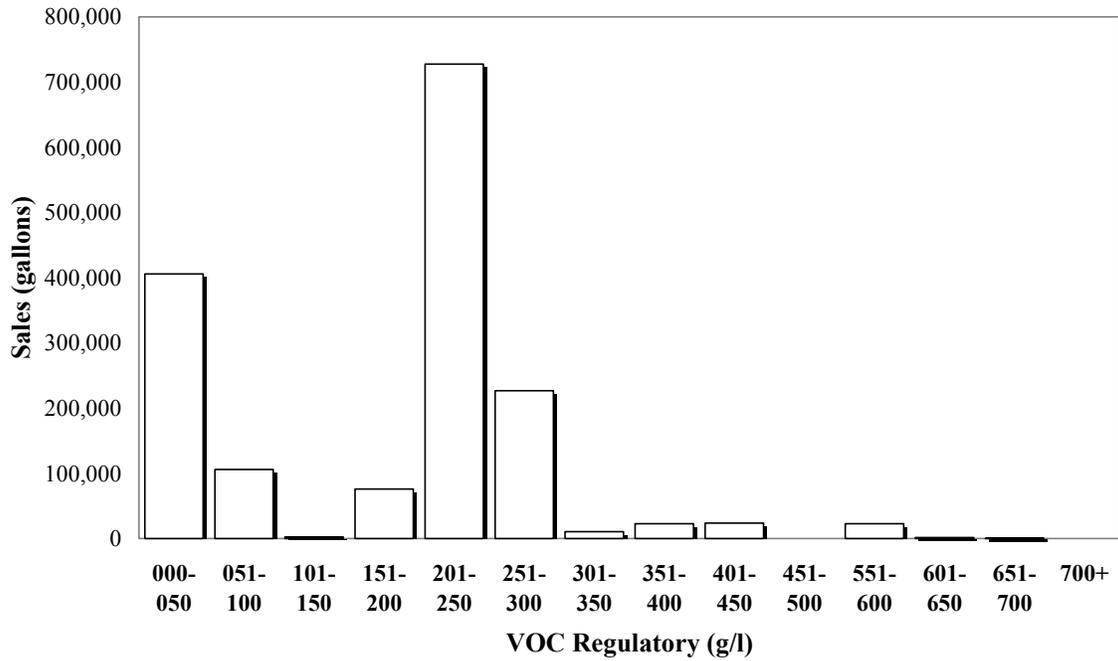


Figure 4-32b
Waterproofing Sealers

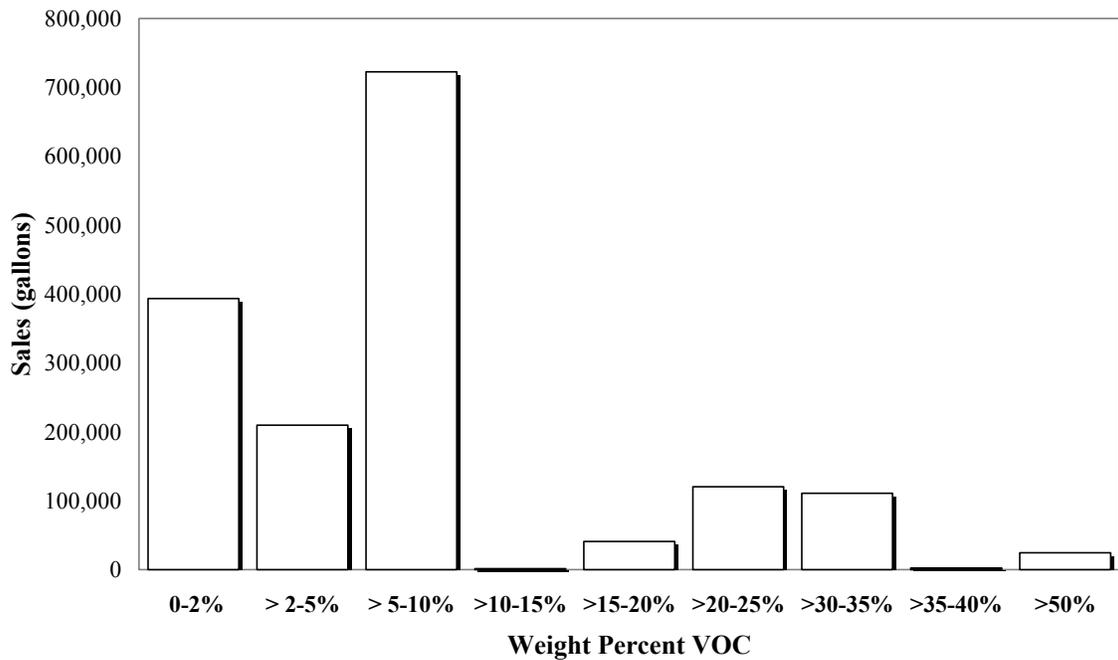


Figure 4-33a
Wood Preservatives

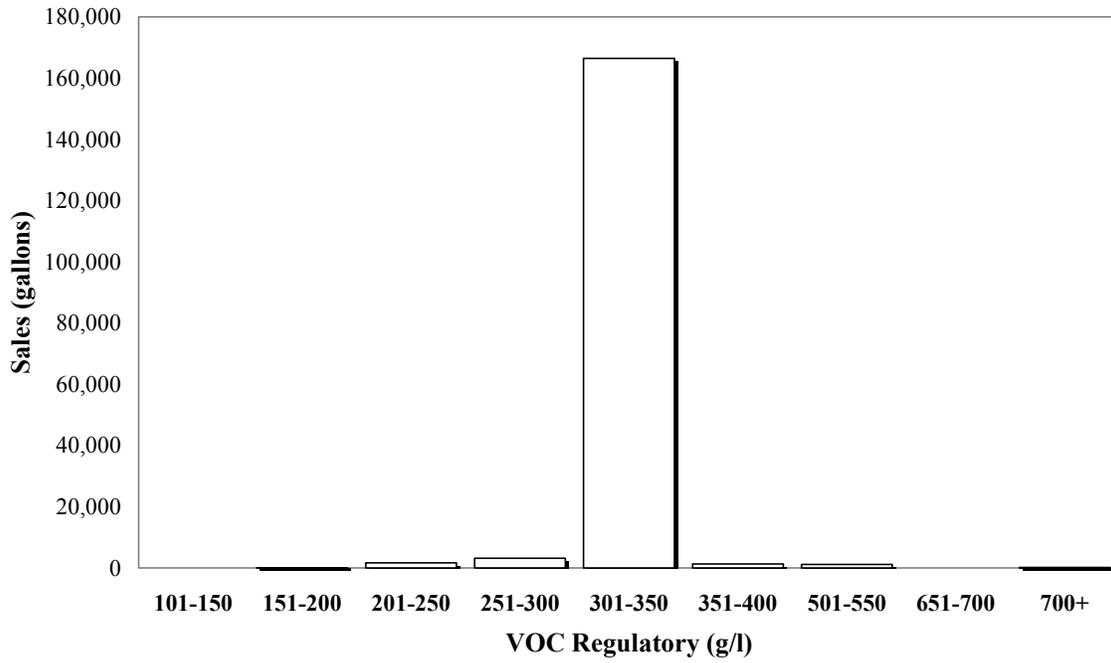
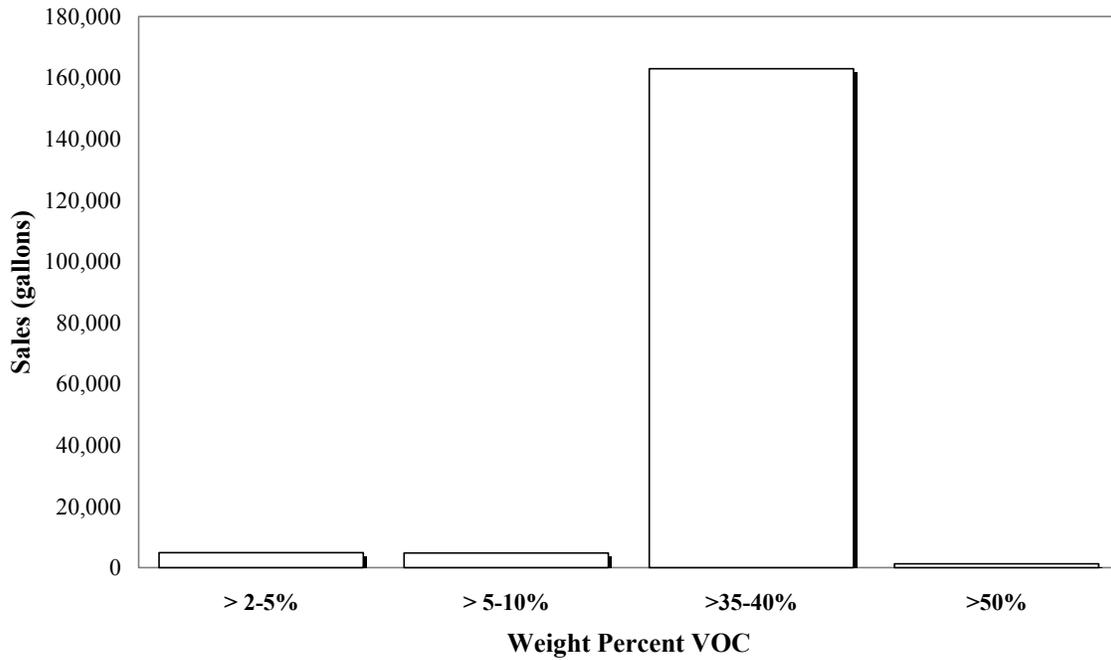


Figure 4-33b
Wood Preservatives



Chapter 5 – VOC Emissions

The 2005 survey collected data on VOC Actual values, which were then used to estimate VOC emissions from architectural coatings in calendar year 2004. VOC emissions were estimated using the following equation:

$$[VOC\ Emissions,\ tons/yr] = [VOC\ Actual,\ lb/gal] * [Sales,\ gals/yr] * [1\ ton/2000\ lbs]$$

Estimated emissions from architectural coatings were approximately **34,700 tons/yr** or **95 tons/day**, based on survey data. These quantities include emissions from small containers (1 quart or less), but they do not include emissions from thinning and cleanup associated with solvent-borne coatings.

Traditionally, for architectural coatings, ARB has estimated thinning and cleanup emissions by assuming that one pint of solvent (average density = 6.4 lb/gal) is used for each gallon of solvent-borne coating. The equation is provided below:

$$Thinning/Cleanup\ Emissions,\ \frac{tons}{day} = \left[Sales,\ \frac{gals\ SB\ coating}{yr} \right] * \left[\frac{1\ pint\ solvent}{gal\ SB\ coating} \right] * \left[\frac{1\ gal\ solvent}{8\ pints\ solvent} \right] * \left[\frac{6.4\ lbs}{gal\ solvent} \right] * \left[\frac{1\ ton}{2000\ lbs} \right] * \left[\frac{1\ yr}{365\ days} \right]$$

This traditional method is based on the assumption that no thinning or cleanup solvents are used when water-borne architectural coatings are applied. However, field surveys conducted by ARB staff revealed that this assumption may not be entirely correct. Water-borne coatings may be cleaned up with water, but some painters use organic solvents to conduct a final flush of their equipment to help prevent rusting. In addition, water-borne coatings may be thinned with water, but some painters use additives that contain VOCs to improve the coatings' performance (e.g., flow additives that extend open time and improve brushability and leveling.) Since water-borne coatings overwhelmingly dominate the architectural coating market, ARB staff believed that it was necessary to re-evaluate the methods used for estimating emissions from thinning and cleanup solvents.

In 2001, ARB sponsored a research project that was intended to improve ARB's emission inventory for a variety of coating categories, including the emission inventory for thinning and cleanup solvents associated with architectural coatings. This project was completed in 2004 and results are summarized in Appendix B. This project yielded new emission factors for estimating VOC emissions from the use of thinning solvents, cleanup solvents, and additives (see Table 5-1).

The new method of estimating emissions for thinning, cleanup, and additives results in higher values than the traditional method. ARB staff believes that the new method provides a more accurate estimate because it is supported by documented research which represents the current marketplace.

Table 5-1: New Emission Factors for Thinning, Cleanup & Additives

	Coating Type	Solvent/Additive Usage Ratio	VOC Content of Solvent or Additive (lb VOC per gal of solvent or additive)	Overall Emission Factor (lb VOC/gal coating)
Thinning	Solvent-borne	0.0597 gal thinning solvent per gallon SB coating	5.92	0.353
Additives	Water-borne	0.0044 gal additive per gallon WB coating	0.92	0.004
Cleanup	Solvent-borne & Water-borne	0.0193 gal cleanup solvent per gallon SB + WB coating	5.92	0.114

Note: See Appendix B for details of new thinning/cleanup estimation method.

Total estimated emissions from thinning solvents, cleanup solvents, and additives are approximately **24** tons/day, including emissions from small containers. This estimate reflects the types of solvents that were in usage during 2004. In July 2005, the SCAQMD enacted requirements that lowered the VOC limit for solvents that are used for cleaning paint guns and other architectural coating application equipment. As of July 1, 2005 these cleaning solvents had to meet a VOC limit of 25 g/l for architectural coating operations conducted within the boundaries of the SCAQMD. ARB's emission inventory for 2005 and later will be adjusted accordingly.

One manufacturer recommended that the new thinning and cleanup emission factors be reduced to account for the amount of solvent that is collected and recycled. ARB staff reviewed recycling and disposal data provided by the California Department of Toxic Substances Control and information from other sources to determine an estimated recycling percentage. Most solvent recycling occurs in stationary shop locations where coating is performed in booths and paint guns are cleaned in enclosed gun washers. Since architectural coating is generally performed in the field, the estimates based on shop locations are not necessarily applicable. In addition, ARB's new emission factors are based on a survey of paint contractors, which gathered data on the quantity of solvent "used", rather than "purchased". Therefore, it is expected that contractors' responses reflected net usage. ARB's review found that architectural coating contractors may reuse solvent by allowing solids to settle in a container and then pouring off the clear solvent to be used again for cleaning. Eventually, the paint solids are collected and disposed. However, it's not yet clear whether a substantial quantity of liquid solvent is collected and recycled by architectural coating contractors.

ARB is also working with the California Integrated Waste Management Board to gather additional data on potential recycling of paint cleaning solvents during Household Hazardous Waste collection events.

This chapter includes the following data summaries:

Table 5-2: *VOC Emissions, Tons Per Year (sorted by category)*

Table 5-3: *VOC Emissions, Tons Per Day (sorted by category)*

Table 5-4: *VOC Emissions, Tons Per Day (sorted by emissions in descending order, excluding thinning and cleanup)*

Table 5-5: *VOC Emissions, Tons Per Day (by container size)*

Figure 5-1: *Solvent-borne and Water-borne Emissions*

Figure 5-2: *Top 10 Emission Categories*

Table 5-2 lists VOC emissions (tons per year) for each coating category, as well as subtotals for solvent-borne and water-borne emissions in each category. Table 5-3 is similar to Table 5-2, but it provides VOC emissions in units of tons per day. Table 5-4 lists VOC emissions, sorted in descending order based on tons per day. Table 5-5 provides VOC emissions based on container size, including subtotals for solvent-borne and water-borne emissions.

Table 5-2: VOC Emissions (sorted by category)

Coating Category	VOC Emissions (Tons/YEAR)						
	SB	WB	TOTAL (without thinning, cleanup or additives)	Thinning	Cleanup	Additives	TOTAL (including thinning, cleanup & additives)
Bituminous Roof	225	11	235	40	76	3	354
Bituminous Roof Primer	85	2	88	11	3	0	102
Bond Breakers	3	59	62	0	11	0	73
Clear Brushing Lacquer	232	0	232	15	5	0	251
Concrete Curing Compounds	41	136	177	8	48	2	235
Driveway Sealer	8	7	15	1	126	4	146
Dry Fog	250	48	298	33	11	0	342
Faux Finishing	7	118	125	1	17	1	144
Fire Resistive	6	0	6	1	0	0	7
Fire Retardant - Clear	2	0	2	0	0	0	2
Fire Retardant - Opaque	261	1	262	32	10	0	305
Flat	6	5,032	5,038	1	2,129	75	7,243
Floor	107	195	302	30	70	2	404
Form Release Compounds	287	5	292	50	16	0	359
Graphic Arts	6	0	6	1	0	0	7
High Temperature	18	0	18	2	1	0	21
Industrial Maintenance	1,304	238	1,542	246	79	1	1,869
Lacquers	1,233	93	1,326	167	54	1	1,547
Low Solids	0	16	16	0	4	0	20
Magnesite Cement	33	0	33	5	1	0	39
Mastic Texture	96	113	209	21	40	1	271
Metallic Pigmented	774	16	790	92	30	0	911
Multi-Color	0	1	2	0	1	0	3
Nonflat - High Gloss	63	424	488	7	95	3	593
Nonflat - Low Gloss	6	2,418	2,425	1	687	24	3,137
Nonflat - Medium Gloss	120	4,163	4,283	14	1,145	41	5,483
Other	5	4	9	0	5	0	15
Pre-Treatment Wash Primer	3	1	4	0	0	0	5
Primer, Sealer, and Undercoater	394	1,995	2,389	46	580	21	3,035
Quick Dry Enamel	1,155	22	1,178	126	41	0	1,344
Quick Dry Primer, Sealer, and Undercoater	385	3	388	40	13	0	441
Recycled	0	0	0	0	13	0	13

Table 5-2: VOC Emissions (sorted by category)

Coating Category	VOC Emissions (Tons/YEAR)						
	SB	WB	TOTAL (without thinning, cleanup or additives)	Thinning	Cleanup	Additives	TOTAL (including thinning, cleanup & additives)
Roof	43	103	146	8	79	3	236
Rust Preventative	3,139	32	3,171	355	115	0	3,641
Sanding Sealers	83	5	88	6	2	0	97
Shellacs - Clear	128	0	128	9	3	0	140
Shellacs - Opaque	297	0	297	26	8	0	331
Specialty Primer, Sealer, and Undercoater	2,173	87	2,260	268	87	1	2,617
Stains - Clear/Semitransparent	2,164	120	2,283	258	83	1	2,625
Stains - Opaque	25	149	174	4	53	2	232
Swimming Pool	5	1	7	1	0	0	8
Swimming Pool Repair and Maintenance	5	0	5	0	0	0	6
Traffic Marking	132	477	609	58	108	4	779
Varnishes - Clear	1,327	106	1,433	123	40	1	1,596
Varnishes - Semitransparent	158	4	162	15	5	0	182
Waterproofing Concrete/Masonry Sealers	696	162	859	149	48	1	1,057
Waterproofing Sealers	339	295	633	55	75	3	766
Wood Preservatives	224	2	226	29	9	0	264
TOTALS (tons/year)	18,054	16,666	34,721	2,352	6,323	197	43,593
% of Total Emissions (w/o thinning/cleanup):	52%	48%					
% of Total Emissions (with thinning/cleanup):	41%	38%		5%	15%	0%	

Notes:

1. This table includes VOC emissions from small containers (1 quart or less).
2. For Recycled coatings, emissions are zero because it is assumed that the emissions should be associated with the sales of the original product, prior to recycling.

Table 5-3: VOC Emissions (sorted by category)

Coating Category	VOC Emissions (Tons/DAY)						
	SB	WB	TOTAL (without thinning, cleanup, additives)	Thinning	Cleanup	Additives	TOTAL (including thinning, cleanup, additives)
Bituminous Roof	0.6	0.0	0.6	0.1	0.2	0.0	1.0
Bituminous Roof Primer	0.2	0.0	0.2	0.0	0.0	0.0	0.3
Bond Breakers	0.0	0.2	0.2	0.0	0.0	0.0	0.2
Clear Brushing Lacquer	0.6	0.0	0.6	0.0	0.0	0.0	0.7
Concrete Curing Compounds	0.1	0.4	0.5	0.0	0.1	0.0	0.6

Table 5-3: VOC Emissions (sorted by category)

Coating Category	VOC Emissions (Tons/DAY)						
	SB	WB	TOTAL (without thinning, cleanup, additives)	Thinning	Cleanup	Additives	TOTAL (including thinning, cleanup, additives)
Driveway Sealer	0.0	0.0	0.0	0.0	0.3	0.0	0.4
Dry Fog	0.7	0.1	0.8	0.1	0.0	0.0	0.9
Faux Finishing	0.0	0.3	0.3	0.0	0.0	0.0	0.4
Fire Resistive	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fire Retardant - Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fire Retardant - Opaque	0.7	0.0	0.7	0.1	0.0	0.0	0.8
Flat	0.0	13.8	13.8	0.0	5.8	0.2	19.8
Floor	0.3	0.5	0.8	0.1	0.2	0.0	1.1
Form Release Compounds	0.8	0.0	0.8	0.1	0.0	0.0	1.0
Graphic Arts	0.0	0.0	0.0	0.0	0.0	0.0	0.0
High Temperature	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Industrial Maintenance	3.6	0.7	4.2	0.7	0.2	0.0	5.1
Lacquers	3.4	0.3	3.6	0.5	0.1	0.0	4.2
Low Solids	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Magnesite Cement	0.1	0.0	0.1	0.0	0.0	0.0	0.1
Mastic Texture	0.3	0.3	0.6	0.1	0.1	0.0	0.7
Metallic Pigmented	2.1	0.0	2.2	0.3	0.1	0.0	2.5
Multi-Color	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Nonflat - High Gloss	0.2	1.2	1.3	0.0	0.3	0.0	1.6
Nonflat - Low Gloss	0.0	6.6	6.6	0.0	1.9	0.1	8.6
Nonflat - Medium Gloss	0.3	11.4	11.7	0.0	3.1	0.1	15.0
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pre-Treatment Wash Primer	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Primer, Sealer, and Undercoater	1.1	5.5	6.5	0.1	1.6	0.1	8.3
Quick Dry Enamel	3.2	0.1	3.2	0.3	0.1	0.0	3.7
Quick Dry Primer, Sealer, and Undercoater	1.1	0.0	1.1	0.1	0.0	0.0	1.2
Recycled	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Roof	0.1	0.3	0.4	0.0	0.2	0.0	0.6
Rust Preventative	8.6	0.1	8.7	1.0	0.3	0.0	10.0
Sanding Sealers	0.2	0.0	0.2	0.0	0.0	0.0	0.3
Shellacs - Clear	0.3	0.0	0.3	0.0	0.0	0.0	0.4
Shellacs - Opaque	0.8	0.0	0.8	0.1	0.0	0.0	0.9
Specialty Primer, Sealer, and Undercoater	6.0	0.2	6.2	0.7	0.2	0.0	7.2
Stains - Clear/Semitransparent	5.9	0.3	6.3	0.7	0.2	0.0	7.2
Stains - Opaque	0.1	0.4	0.5	0.0	0.1	0.0	0.6
Swimming Pool	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Swimming Pool Repair and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Traffic Marking	0.4	1.3	1.7	0.2	0.3	0.0	2.1
Varnishes - Clear	3.6	0.3	3.9	0.3	0.1	0.0	4.4

Table 5-3: VOC Emissions (sorted by category)

Coating Category	VOC Emissions (Tons/DAY)						
	SB	WB	TOTAL (without thinning, cleanup, additives)	Thinning	Cleanup	Additives	TOTAL (including thinning, cleanup, additives)
Varnishes - Semitransparent	0.4	0.0	0.4	0.0	0.0	0.0	0.5
Waterproofing Concrete/Masonry Sealers	1.9	0.4	2.4	0.4	0.1	0.0	2.9
Waterproofing Sealers	0.9	0.8	1.7	0.1	0.2	0.0	2.1
Wood Preservatives	0.6	0.0	0.6	0.1	0.0	0.0	0.7
TOTALS (tons/day)	49	46	95	6	17	1	119
% of Total Emissions (w/o thinning/cleanup):	52%	48%					
% of Total Emissions (with thinning/cleanup):	41%	38%		5%	15%	0%	

Notes:

1. NA = Not applicable. No sales were reported for this category.
2. This table includes VOC emissions from small containers (1 quart or less).
3. For Recycled coatings, emissions are zero because it is assumed that the emissions should be associated with the sales of the original product, prior to recycling.

Table 5-4: VOC Emissions**(sorted by emissions in descending order, excluding thinning, cleanup & additives)**

Coating Category	VOC Emissions (Tons/DAY)						
	SB	WB	TOTAL (without thinning, cleanup or additives)	Thinning	Cleanup	Additives	TOTAL (including thinning, cleanup & additives)
Flat	0.0	13.8	13.8	0.0	5.8	0.2	19.8
Nonflat - Medium Gloss	0.3	11.4	11.7	0.0	3.1	0.1	15.0
Rust Preventative	8.6	0.1	8.7	1.0	0.3	0.0	10.0
Nonflat - Low Gloss	0.0	6.6	6.6	0.0	1.9	0.1	8.6
Primer, Sealer, and Undercoater	1.1	5.5	6.5	0.1	1.6	0.1	8.3
Stains - Clear/Semitransparent	5.9	0.3	6.3	0.7	0.2	0.0	7.2
Specialty Primer, Sealer, and Undercoater	6.0	0.2	6.2	0.7	0.2	0.0	7.2
Industrial Maintenance	3.6	0.7	4.2	0.7	0.2	0.0	5.1
Varnishes - Clear	3.6	0.3	3.9	0.3	0.1	0.0	4.4
Lacquers	3.4	0.3	3.6	0.5	0.1	0.0	4.2
Quick Dry Enamel	3.2	0.1	3.2	0.3	0.1	0.0	3.7
Waterproofing Concrete/Masonry Sealers	1.9	0.4	2.4	0.4	0.1	0.0	2.9
Metallic Pigmented	2.1	0.0	2.2	0.3	0.1	0.0	2.5
Waterproofing Sealers	0.9	0.8	1.7	0.1	0.2	0.0	2.1

Table 5-4: VOC Emissions
(sorted by emissions in descending order, excluding thinning, cleanup & additives)

Coating Category	VOC Emissions (Tons/DAY)						
	SB	WB	TOTAL (without thinning, cleanup or additives)	Thinning	Cleanup	Additives	TOTAL (including thinning, cleanup & additives)
Traffic Marking	0.4	1.3	1.7	0.2	0.3	0.0	2.1
Nonflat - High Gloss	0.2	1.2	1.3	0.0	0.3	0.0	1.6
Quick Dry Primer, Sealer, and Undercoater	1.1	0.0	1.1	0.1	0.0	0.0	1.2
Floor	0.3	0.5	0.8	0.1	0.2	0.0	1.1
Dry Fog	0.7	0.1	0.8	0.1	0.0	0.0	0.9
Shellacs - Opaque	0.8	0.0	0.8	0.1	0.0	0.0	0.9
Form Release Compounds	0.8	0.0	0.8	0.1	0.0	0.0	1.0
Fire Retardant - Opaque	0.7	0.0	0.7	0.1	0.0	0.0	0.8
Bituminous Roof	0.6	0.0	0.6	0.1	0.2	0.0	1.0
Clear Brushing Lacquer	0.6	0.0	0.6	0.0	0.0	0.0	0.7
Wood Preservatives	0.6	0.0	0.6	0.1	0.0	0.0	0.7
Mastic Texture	0.3	0.3	0.6	0.1	0.1	0.0	0.7
Concrete Curing Compounds	0.1	0.4	0.5	0.0	0.1	0.0	0.6
Stains - Opaque	0.1	0.4	0.5	0.0	0.1	0.0	0.6
Varnishes - Semitransparent	0.4	0.0	0.4	0.0	0.0	0.0	0.5
Roof	0.1	0.3	0.4	0.0	0.2	0.0	0.6
Shellacs - Clear	0.3	0.0	0.3	0.0	0.0	0.0	0.4
Faux Finishing	0.0	0.3	0.3	0.0	0.0	0.0	0.4
Sanding Sealers	0.2	0.0	0.2	0.0	0.0	0.0	0.3
Bituminous Roof Primer	0.2	0.0	0.2	0.0	0.0	0.0	0.3
Bond Breakers	0.0	0.2	0.2	0.0	0.0	0.0	0.2
Magnesite Cement	0.1	0.0	0.1	0.0	0.0	0.0	0.1
High Temperature	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Low Solids	0.0	0.0	0.0	0.0	0.0	0.0	0.1
Driveway Sealer	0.0	0.0	0.0	0.0	0.3	0.0	0.4
Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Swimming Pool	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fire Resistive	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Graphic Arts	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Swimming Pool Repair and Maintenance	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pre-Treatment Wash Primer	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Multi-Color	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Fire Retardant - Clear	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Recycled	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table 5-4: VOC Emissions
(sorted by emissions in descending order, excluding thinning, cleanup & additives)

Coating Category	VOC Emissions (Tons/DAY)						TOTAL (including thinning, cleanup & additives)
	SB	WB	TOTAL (without thinning, cleanup or additives)	Thinning	Cleanup	Additives	
TOTALS:	49	46	95	6	17	1	119
% of Total Emissions (w/o thinning/cleanup):	52%	48%					
% of Total Emissions (with thinning/cleanup):	41%	38%		5%	15%	0%	

Notes:

1. This table includes VOC emissions from small containers (1 quart or less).
2. For Recycled coatings, emissions are zero because it is assumed that the emissions should be associated with the sales of the original product, prior to recycling.
3. For Driveway Sealers, emissions from equipment cleanup are more than emissions from coating usage, because cleanup emissions are associated with waterborne products that have very low VOC contents.

Table 5-5: VOC Emissions (by container size)

Coating Category	VOC Emissions (Tons/DAY)				
	TOTAL	Small Containers (≤ 1 quart)		Large Containers (> 1 quart)	
		SB	WB	SB	WB
Bituminous Roof	0.6	0.0	0.0	0.6	0.0
Bituminous Roof Primer	0.2	0.0	0.0	0.2	0.0
Bond Breakers	0.2	0.0	0.0	0.0	0.2
Clear Brushing Lacquer	0.6	0.2	0.0	0.4	0.0
Concrete Curing Compounds	0.5	0.0	0.0	0.1	0.4
Driveway Sealer	0.0	0.0	0.0	0.0	0.0
Dry Fog	0.8	0.0	0.0	0.7	0.1
Faux Finishing	0.3	0.0	0.1	0.0	0.2
Fire Resistive	0.0	0.0	0.0	0.0	0.0
Fire Retardant - Clear	0.0	0.0	0.0	0.0	0.0
Fire Retardant - Opaque	0.7	0.0	0.0	0.7	0.0
Flat	13.8	0.0	0.2	0.0	13.5
Floor	0.8	0.0	0.0	0.3	0.5
Form Release Compounds	0.8	0.0	0.0	0.8	0.0
Graphic Arts	0.0	0.0	0.0	0.0	0.0
High Temperature	0.0	0.0	0.0	0.0	0.0
Industrial Maintenance	4.2	0.1	0.0	3.5	0.6
Lacquers	3.6	0.1	0.0	3.3	0.2
Low Solids	0.0	0.0	0.0	0.0	0.0
Magnesite Cement	0.1	0.0	0.0	0.1	0.0
Mastic Texture	0.6	0.0	0.0	0.3	0.3
Metallic Pigmented	2.2	0.0	0.0	2.1	0.0
Multi-Color	0.0	0.0	0.0	0.0	0.0
Nonflat - High Gloss	1.3	0.1	0.0	0.1	1.1
Nonflat - Low Gloss	6.6	0.0	0.2	0.0	6.4
Nonflat - Medium Gloss	11.7	0.2	0.5	0.2	10.9

Table 5-5: VOC Emissions (by container size)

Coating Category	VOC Emissions (Tons/DAY)				
	TOTAL	Small Containers (≤ 1 quart)		Large Containers (> 1 quart)	
		SB	WB	SB	WB
Other	0.0	0.0	0.0	0.0	0.0
Pre-Treatment Wash Primer	0.0	0.0	0.0	0.0	0.0
Primer, Sealer, and Undercoater	6.5	0.2	0.1	0.8	5.4
Quick Dry Enamel	3.2	0.1	0.0	3.1	0.1
Quick Dry Primer, Sealer, and Undercoater	1.1	0.1	0.0	1.0	0.0
Recycled	0.0	0.0	0.0	0.0	0.0
Roof	0.4	0.0	0.0	0.1	0.3
Rust Preventative	8.7	1.1	0.0	7.5	0.1
Sanding Sealers	0.2	0.2	0.0	0.0	0.0
Shellacs - Clear	0.3	0.1	0.0	0.3	0.0
Shellacs - Opaque	0.8	0.0	0.0	0.8	0.0
Specialty Primer, Sealer, and Undercoater	6.2	0.1	0.0	5.8	0.2
Stains - Clear/Semitransparent	6.3	2.8	0.1	3.2	0.3
Stains - Opaque	0.5	0.0	0.0	0.1	0.4
Swimming Pool	0.0	0.0	0.0	0.0	0.0
Swimming Pool Repair and Maintenance	0.0	0.0	0.0	0.0	0.0
Traffic Marking	1.7	0.0	0.0	0.4	1.3
Varnishes - Clear	3.9	2.7	0.0	0.9	0.3
Varnishes - Semitransparent	0.4	0.4	0.0	0.0	0.0
Waterproofing Concrete/Masonry Sealers	2.4	0.0	0.0	1.9	0.4
Waterproofing Sealers	1.7	0.0	0.0	0.9	0.8
Wood Preservatives	0.6	0.1	0.0	0.6	0.0
TOTALS:	95	9	1	41	44
% of Total Emissions:		9%	2%	43%	46%

Notes:

1. This table includes VOC emissions from small containers (1 quart or less).
2. For Recycled coatings, emissions are zero because it is assumed that the emissions should be associated with the sales of the original product, prior to recycling.

The breakdown between solvent-borne and water-borne emission data is graphically illustrated in Figure 5-1, while Figure 5-2 is a chart that highlights the top ten coating categories, based on VOC emissions.

Figure 5-1
Water-borne and Solvent-borne Emissions
 (Without Thinning and Cleanup)

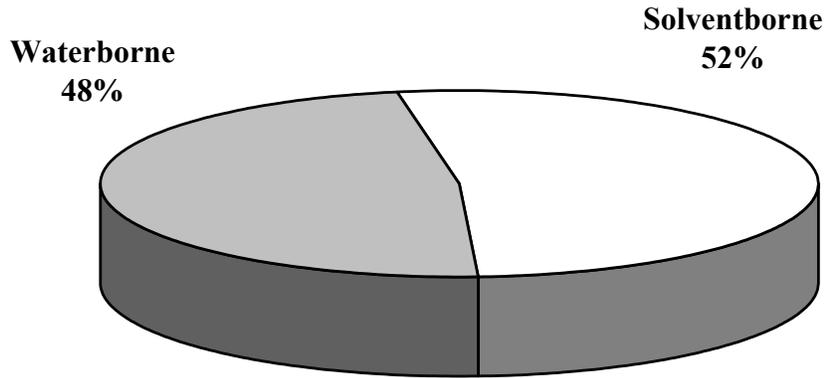
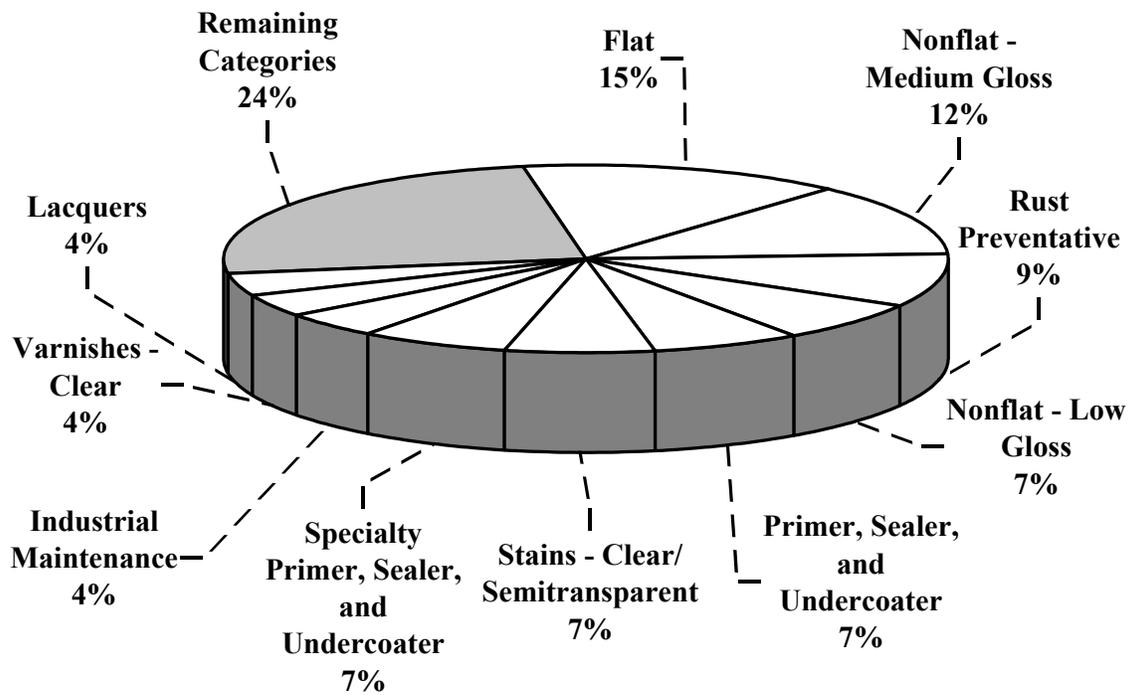


Figure 5-2
Top 10 Emission Categories



Top 10 categories account for 75% of total emissions.

Chapter 6 -- Complying Marketshares

In June 2000, the ARB adopted a Suggested Control Measure (SCM) for Architectural Coatings. To date, 19 local air districts have adopted this SCM, with VOC limits that took effect in 2003 and 2004. Data from the 2005 survey were analyzed to determine what percentage of coating sales volumes complied with the VOC limits in the SCM. For comparison purposes, data were also analyzed to determine the percentage of sales volume that would comply with the South Coast Air Quality Management District's future Rule 1113 VOC limits that will become effective in or before 2008. When conducting these analyses, we did not include the sales of small containers (i.e., one quart or less), because the SCM contains an exemption from VOC limits for small containers. Rule 1113 also contained a general small container exemption in 2004.

Complying marketshares from the 2005 survey were compared with results from the previous 2001 survey. In most cases, the percent complying marketshare from the 2005 survey had improved or was approximately the same, when compared to the 2001 survey data. However, there were a few categories where the complying marketshare declined noticeably, as discussed later in this chapter.

This chapter includes the following data summaries:

Table 6-1: *2005 Survey Complying Marketshares – SCM Limits (large containers only)*

Table 6-2: *Previous 2001 Survey Complying Marketshares – SCM Limits (large containers only)*

Table 6-3: *2005 Survey Complying Marketshares – SCM Limits (small containers only)*

Table 6-4: *2005 Survey Complying Marketshares (Interior/Exterior/Dual) – SCM Limits (large containers only)*

Table 6-5: *2005 Survey Complying Marketshares – Future SCAQMD Limits (large containers only)*

Table 6-6: *Previous 2001 Survey Complying Marketshares – Future SCAQMD Limits (large containers only)*

Table 6-7: *2005 Survey Complying Marketshares – Future SCAQMD Limits (small containers only)*

Table 6-8: *2005 Survey Complying Marketshares (Interior/Exterior/Dual) – Future SCAQMD Limits (large containers only)*

Figure 6-1: *Comparison of SCM Complying Marketshares – 2005 vs. 2001 (Part I)*

Figure 6-2: *Comparison of SCM Complying Marketshares – 2005 vs. 2001 (Part II)*

Table 6-1: 2005 Survey Complying Marketshares – SCM Limits
(does not include small containers ≤ 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Bituminous Roof	300	37	81	77	95%	1,550,570	1,545,542	100%
Bituminous Roof Primer	350	324	31	15	48%	68,092	53,861	79%
Bond Breakers	350	302	13	9	69%	187,785	137,200	73%
Clear Brushing Lacquer	680	666	4	4	100%	PD	PD	100%
Concrete Curing Compounds	350	166	115	103	90%	891,256	881,475	99%
Driveway Sealer	100	3	45	41	91%	2,205,798	2,201,438	100%
Dry Fog	400	235	70	70	100%	373,042	373,042	100%
Faux Finishing	350	204	273	261	96%	235,239	229,547	98%
Fire Resistive	350	124	7	6	86%	12,510	12,365	99%
Fire Retardant - Clear	650	531	4	4	100%	PD	PD	100%
Fire Retardant - Opaque	350	325	11	11	100%	194,585	194,585	100%
Flat	100	81	2,438	2,131	87%	36,699,154	33,062,690	90%
Floor	250	104	411	321	78%	1,382,564	1,357,587	98%
Form Release Compounds	250	233	39	34	87%	323,612	314,477	97%
Graphic Arts	500	314	91	91	100%	PD	PD	100%
High Temperature	420	366	81	57	70%	8,116	7,296	90%
Industrial Maintenance	250	208	2,958	1,606	54%	2,057,855	1,414,348	69%
Lacquers	550	458	724	418	58%	1,259,664	849,142	67%
Low Solids	120	60	32	32	100%	65,290	65,290	100%
Magnesite Cement	450	446	16	16	100%	PD	PD	100%
Mastic Texture	300	98	78	76	97%	812,591	801,316	99%
Metallic Pigmented	500	300	190	184	97%	637,666	637,020	100%
Multi-Color	250	94	12	9	75%	13,372	13,362	100%
Nonflat - High Gloss	250	153	315	195	62%	1,657,983	1,624,798	98%
Nonflat - Low Gloss	150	118	1,106	1,056	95%	11,612,029	11,537,845	99%
Nonflat - Medium Gloss	150	127	1,956	1,727	88%	19,312,731	17,769,357	92%
Other	100	64	44	19	43%	90,708	70,078	77%
Pre-Treatment Wash Primer	420	167	5	3	60%	4,602	4,570	99%
Primer, Sealer, and Undercoater	200	127	664	541	81%	10,220,213	9,967,155	98%
Quick Dry Enamel	250	380	120	46	38%	746,027	55,317	7%
Quick Dry Primer, Sealer, and Undercoater	200	356	33	6	18%	245,632	45,616	19%
Recycled	250	193	7	7	100%	223,381	223,381	100%

Table 6-1: 2005 Survey Complying Marketshares – SCM Limits*(does not include small containers ≤ 1 quart)*

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Roof	250	46	210	193	92%	1,412,343	1,401,767	99%
Rust Preventative	400	362	372	286	77%	1,862,919	1,749,577	94%
Sanding Sealers	350	203	30	13	43%	25,058	22,898	91%
Shellacs – Clear	730	617	8	8	100%	PD	PD	100%
Shellacs - Opaque	550	521	2	2	100%	PD	PD	100%
Specialty Primer, Sealer, and Undercoater	350	280	89	76	85%	1,974,378	1,925,514	98%
Stains - Clear/Semitransparent	250	279	767	309	40%	1,330,189	962,857	72%
Stains - Opaque	250	106	423	327	77%	948,346	936,390	99%
Swimming Pool	340	250	34	27	79%	7,852	7,666	98%
Swimming Pool Repair and Maintenance	340	588	3	0	0%	PD	PD	0%
Traffic Marking	150	101	245	214	87%	2,214,326	2,209,864	100%
Varnishes - Clear	350	308	408	215	53%	466,360	420,552	90%
Varnishes - Semitransparent	350	292	44	20	45%	10,872	9,207	85%
Waterproofing Concrete/Masonry Sealers	400	204	271	250	92%	1,509,402	1,476,737	98%
Waterproofing Sealers	250	187	189	131	69%	1,622,079	1,314,980	81%
Wood Preservatives	350	325	29	26	90%	158,810	156,260	98%
TOTALS:			15,098	11,273	75%	106,898,123	98,304,911	92%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. “% of Complying Sales” represents the percent (by sales volume in gallons) that complied with the SCM VOC limits that were effective during 2004.
3. Sales of exempt small containers (1 quart or less) were NOT included when determining complying marketshare percentages.

Notes on specific coating categories:

Low Solids: For Low Solids coatings, VOC Regulatory is equal to VOC Actual.

Other: For the “Other” category, the VOC Limit varies according to the gloss level of the coating. Therefore, we used the minimum possible VOC Limit of 100 g/l to estimate complying marketshare percentages. For the 2005 Survey, the complying marketshare for the “Other” category was 77%, which is a substantial decline from the 2001 Survey value of 100%. This decline was due to a change in the types of coatings that were included in the “Other” category. In the 2001 Survey, the “Other” category consisted primarily of Driveway Sealers which had a 100% complying marketshare. In the 2005

Survey, Driveway Sealers were pulled out as a separate category. The products that remained in the “Other” category had a lower complying marketshare.

Quick Dry Enamel: Most of the reported Quick Dry Enamels were solvent-borne products that exceeded the VOC limit, but were included in averaging programs. Therefore, the complying marketshare is low. Quick Dry Enamel coatings can be replaced by Nonflat – High Gloss products.

Quick Dry Primer, Sealer, Undercoater: A significant portion of the Quick Dry PSUs were solvent-borne products that exceeded the VOC limit, but were included in averaging programs. Therefore, the complying marketshare is low. Quick Dry PSUs can be replaced by regular PSUs or Specialty PSUs.

Swimming Pool Repair and Maintenance: Swimming Pool Repair and Maintenance coatings can be replaced by regular Swimming Pool coatings.

For comparison purposes, Table 6-2 contains the complying marketshares from the previous 2001 Survey.

Table 6-2: Previous 2001 Survey Complying Marketshares – SCM Limits
(does not include small containers ≤ 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Antenna	530	434	6	6	100%	PD	PD	100%
Bituminous Roof	300	120	193	165	85%	3,239,994	3,156,045	97%
Bituminous Roof Primer	350	211	28	14	50%	170,520	125,163	73%
Bond Breakers	350	244	11	10	91%	93,896	89,936	96%
Clear Brushing Lacquer	680	667	3	3	100%	PD	PD	100%
Concrete Curing Compounds	350	145	108	100	93%	692,285	686,935	99%
Dry Fog	400	258	89	86	97%	459,756	456,909	99%
Faux Finishing	350	220	78	41	53%	128,949	128,718	100%
Fire Resistive	350	45	2	2	100%	PD	PD	100%
Fire Retardant - Clear	650	4	9	9	100%	PD	PD	100%
Fire Retardant - Opaque	350	94	20	17	85%	PD	PD	99%
Flat	100	96	3514	2503	71%	34,405,612	25,845,396	75%
Floor	250	99	715	540	76%	1,403,122	1,338,891	95%
Flow	420	412	1	1	100%	PD	PD	100%
Form Release Compounds	250	213	33	29	88%	255,724	255,208	100%
Graphic Arts	500	232	117	102	87%	19,913	19,788	99%
High Temperature	420	400	93	60	65%	PD	PD	90%

Table 6-2: Previous 2001 Survey Complying Marketshares – SCM Limits*(does not include small containers ≤ 1 quart)*

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Industrial Maintenance	250	293	3751	1189	32%	4,527,107	1,373,092	30%
Lacquers	550	579	437	125	29%	427,182	119,716	28%
Low Solids	120	59	4	4	100%	13,284	13,284	100%
Magnesite Cement	450	443	18	18	100%	PD	PD	100%
Mastic Texture	300	133	62	61	98%	628,585	584,515	93%
Metallic Pigmented	500	408	166	155	93%	613,031	611,521	100%
Multi-Color	250	221	17	6	35%	PD	PD	78%
Nonflat - High Gloss	250	243	842	498	59%	1,781,198	1,385,550	78%
Nonflat - Low Gloss	150	128	1375	959	70%	6,449,909	5,098,147	79%
Nonflat - Medium Gloss	150	169	2569	1243	48%	17,468,318	8,354,426	48%
Other	100	1	53	38	72%	1,505,551	1,501,057	100%
Pre-Treatment Wash Primer	420	175	21	15	71%	25,420	23,802	94%
Primer, Sealer, and Undercoater	200	152	905	534	59%	7,941,252	6,455,286	81%
Quick Dry Enamel	250	358	166	62	37%	PD	PD	12%
Quick Dry Primer, Sealer, and Undercoater	200	365	121	28	23%	1,611,339	361,287	22%
Recycled	250	204	6	4	67%	323,216	264,382	82%
Roof	250	68	176	155	88%	1,134,869	1,092,124	96%
Rust Preventative	400	330	81	74	91%	180,522	178,700	99%
Sanding Sealers	350	425	40	18	45%	16,098	6,853	43%
Shellacs - Clear	730	596	9	9	100%	PD	PD	100%
Shellacs - Opaque	550	538	3	3	100%	PD	PD	100%
Specialty Primer, Sealer, and Undercoater	350	119	46	30	65%	369,187	352,121	95%
Stains - Clear/Semitransparent	250	318	1175	138	12%	1,732,923	285,155	16%
Stains - Opaque	250	179	568	322	57%	1,079,339	799,004	74%
Swimming Pool	340	276	32	28	88%	21,835	20,263	93%
Swimming Pool Repair and Maintenance	340	573	7	0	0%	15,046	0	0%
Traffic Marking	150	116	270	211	78%	3,338,767	3,240,573	97%
Varnishes - Clear	350	304	414	177	43%	662,630	546,775	83%
Varnishes - Semitransparent	350	291	13	6	46%	1,784	1,571	88%
Waterproofing Concrete/Masonry Sealers	400	206	127	114	90%	700,028	639,275	91%
Waterproofing	250	250	234	111	47%	1,006,632	405,414	40%

Table 6-2: Previous 2001 Survey Complying Marketshares – SCM Limits*(does not include small containers ≤ 1 quart)*

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Sealers								
Wood Preservatives	350	347	96	66	69%	164,950	148,315	90%
TOTALS:			18,824	10,089	54%	95,441,859	66,264,654	69%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. “% of Complying Sales” represents the percent (by sales volume in gallons) that complied with the SCM VOC limits that were effective in 2004.
3. Sales of exempt small containers (1 quart or less) were NOT included when determining complying marketshare percentages.

Table 6-3 contains a “quarts only” evaluation of complying marketshare, based on SCM VOC limits. Sales of large containers were not included when calculating the values in this table. If a particular coating category did not have any sales of small containers, it was not included in Table 6-3. Architectural coating regulations generally have an exemption from VOC limits for small containers. However, this exemption is periodically reviewed and the SCAQMD Rule 1113 eliminated the small container exemption for clear wood finishes in 2006.

Table 6-3: 2005 Survey Complying Marketshares (small containers only) – SCM Limits*(only includes small containers ≤ 1 quart)*

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Bituminous Roof	300	175	18	18	100%	4,133	4,133	100%
Clear Brushing Lacquer	680	666	4	4	100%	PD	PD	100%
Concrete Curing Compounds	350	162	1	1	100%	PD	PD	100%
Driveway Sealer	100	59	1	1	100%	PD	PD	100%
Dry Fog	400	49	1	1	100%	PD	PD	100%
Faux Finishing	350	439	535	310	58%	68,571	40,283	59%
Fire Retardant - Clear	650	536	1	1	100%	PD	PD	100%
Fire Retardant - Opaque	350	350	1	1	100%	PD	PD	100%
Flat	100	90	897	734	82%	571,525	432,882	76%
Floor	250	212	196	139	71%	9,726	6,336	65%
Graphic Arts	500	359	132	132	100%	PD	PD	100%
High Temperature	420	499	16	0	0%	3,620	0	0%
Industrial Maintenance	250	311	389	158	41%	26,358	11,139	42%
Lacquers	550	376	154	54	35%	36,659	30,951	84%
Low Solids	120	77	3	3	100%	390	390	100%
Mastic Texture	300	67	2	2	100%	PD	PD	100%

Table 6-3: 2005 Survey Complying Marketshares (small containers only) – SCM Limits
(only includes small containers ≤ 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Metallic Pigmented	500	376	56	43	77%	13,346	12,653	95%
Multi-Color	250	551	1	0	0%	PD	PD	0%
Nonflat - High Gloss	250	258	305	136	45%	47,673	27,795	58%
Nonflat - Low Gloss	150	125	642	554	86%	419,869	405,150	96%
Nonflat - Medium Gloss	150	160	1,126	840	75%	812,929	588,442	72%
Other	100	85	18	4	22%	593	508	86%
Pre-Treatment Wash Primer	420	747	6	0	0%	PD	PD	0%
Primer, Sealer, and Undercoater	200	230	251	172	69%	185,496	146,510	79%
Quick Dry Enamel	250	391	58	20	34%	16,257	251	2%
Quick Dry Primer, Sealer, and Undercoater	200	433	27	5	19%	18,451	1,997	11%
Roof	250	48	17	16	94%	8,363	8,300	99%
Rust Preventative	400	421	395	189	48%	231,666	83,248	36%
Sanding Sealers	350	539	22	2	9%	34,911	412	1%
Shellacs - Clear	730	618	3	3	100%	PD	PD	100%
Shellacs - Opaque	550	521	2	2	100%	PD	PD	100%
Specialty Primer, Sealer, and Undercoater	350	303	64	49	77%	45,617	34,590	76%
Stains - Clear/Semitransparent	250	487	898	106	12%	536,530	11,853	2%
Stains - Opaque	250	215	90	75	83%	3,431	2,314	67%
Traffic Marking	150	122	1	1	100%	PD	PD	100%
Varnishes - Clear	350	479	430	131	30%	505,925	49,383	10%
Varnishes - Semitransparent	350	439	88	13	15%	84,065	142	0%
Waterproofing Concrete/Masonry Sealers	400	348	29	24	83%	14,065	10,248	73%
Waterproofing Sealers	250	183	14	7	50%	4,565	3,151	69%
Wood Preservatives	350	323	6	6	100%	PD	PD	100%
TOTALS:			6,900	3,957	57%	3,778,551	1,985,565	53%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. “% of Complying Sales” represents the percent (by sales volume in gallons) that complied with the SCM VOC limits that were effective in 2004.
3. Sales of large containers (greater than 1 quart) were not included when determining complying marketshare percentages.

Table 6-4 provides complying marketshares based on recommended exposures (interior, exterior, or dual). In many cases, manufacturers create different formulations for interior and exterior applications, because different exposures require different coating properties. As a result, VOC levels and complying marketshares may vary for different exposures. Architectural coating regulations do not generally contain VOC limits based on exposure, but SCAQMD Rule 1113 has different VOC limits for Interior and Exterior/Dual Stains.

Table 6-4: 2005 Survey Complying Marketshares (Interior/Exterior/Dual) – SCM Limits

(does not include small containers \leq 1 quart)

Coating Category	Dual Ext Int	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Comply- ing Products	% of Comply- ing Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Comply- ing Sales
Bituminous Roof	Ext	300	37	81	77	95%	1,550,570	1,545,542	100%
Bituminous Roof Primer	Ext	350	324	31	15	48%	68,092	53,861	79%
Bond Breakers	Ext	350	302	13	9	69%	187,785	137,200	73%
Clear Brushing Lacquer	Dual	680	612	1	1	100%	PD	PD	100%
	Int		666	3	3	100%	PD	PD	100%
Concrete Curing Compounds	Dual	350	140	77	68	88%	613,471	610,316	99%
	Ext		222	37	35	95%	277,755	271,159	98%
	Int		560	1	0	0%	PD	PD	0%
Driveway Sealer	Ext	100	3	45	41	91%	2,205,798	2,201,438	100%
Dry Fog	Dual	400	384	6	6	100%	8,730	8,730	100%
	Ext		80	2	2	100%	PD	PD	100%
	Int		233	62	62	100%	360,467	360,467	100%
Faux Finishing	Dual	350	277	32	32	100%	PD	PD	100%
	Int		202	241	229	95%	228,537	222,845	98%
Fire Resistive	Dual	350	63	3	3	100%	PD	PD	100%
	Int		130	4	3	75%	11,425	11,280	99%
Fire Retardant - Clear	Dual	650	536	1	1	100%	PD	PD	100%
	Int		527	3	3	100%	PD	PD	100%
Fire Retardant - Opaque	Dual	350	51	4	4	100%	PD	PD	100%
	Int		325	7	7	100%	194,018	194,018	100%
Flat	Dual	100	87	361	302	84%	5,643,662	5,464,863	97%
	Ext		80	791	714	90%	13,305,943	13,191,861	99%
	Int		81	1,286	1,115	87%	17,749,549	14,405,966	81%
Floor	Dual	250	105	344	257	75%	1,244,845	1,222,186	98%
	Ext		136	28	27	96%	36,365	36,349	100%
	Int		78	39	37	95%	101,353	99,051	98%
Form Release Compounds	Dual	250	238	34	29	85%	310,321	301,186	97%
	Ext		100	5	5	100%	PD	PD	100%
Graphic Arts	Dual		314	91	91	100%	PD	PD	100%
High Temperature	Dual	420	380	79	55	70%	7,048	6,228	88%
	Int		279	2	2	100%	PD	PD	100%
Industrial Maintenance	Dual	250	215	2,016	1,020	51%	1,604,249	1,114,876	69%
	Ext		235	339	131	39%	183,646	84,651	46%
	Int		143	603	455	75%	269,960	214,821	80%

Table 6-4: 2005 Survey Complying Marketshares (Interior/Exterior/Dual) – SCM Limits
(does not include small containers ≤ 1 quart)

Coating Category	Dual Ext Int	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Comply- ing Products	% of Comply- ing Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Comply- ing Sales
Lacquers	Dual	550	170	10	8	80%	71,954	71,938	100%
	Ext		401	6	6	100%	PD	PD	100%
	Int		476	708	404	57%	1,186,723	776,217	65%
Low Solids	Dual	120	26	8	8	100%	7,642	7,642	100%
	Ext		65	21	21	100%	57,388	57,388	100%
	Int		28	3	3	100%	PD	PD	100%
Magnesite Cement	Ext	450	446	16	16	100%	PD	PD	100%
Mastic Texture	Dual	300	141	49	48	98%	289,015	288,995	100%
	Ext		74	27	26	96%	523,484	512,229	98%
	Int		99	2	2	100%	PD	PD	100%
Metallic Pigmented	Dual	500	91	81	78	96%	125,679	125,419	100%
	Ext		352	99	96	97%	508,456	508,070	100%
	Int		181	10	10	100%	3,532	3,532	100%
Multi-Color	Int	250	94	12	9	75%	13,372	13,362	100%
Nonflat - High Gloss	Dual	250	161	206	123	60%	913,699	882,066	97%
	Ext		141	57	30	53%	16,811	15,441	92%
	Int		142	52	42	81%	727,473	727,291	100%
Nonflat - Low Gloss	Dual	150	125	156	144	92%	2,118,280	2,084,675	98%
	Ext		106	312	297	95%	1,710,710	1,700,491	99%
	Int		118	638	615	96%	7,783,039	7,752,679	100%
Nonflat - Medium Gloss	Dual	150	145	500	391	78%	6,019,341	4,759,419	79%
	Ext		122	471	452	96%	2,555,259	2,549,446	100%
	Int		118	985	884	90%	10,738,131	10,460,492	97%
Other	Dual	100	9	14	9	64%	17,884	17,308	97%
	Ext		70	7	6	86%	PD	PD	100%
	Int		82	23	4	17%	51,016	31,070	61%
Pre-Treatment Wash Primer	Dual	420	167	5	3	60%	4,602	4,570	99%
Primer, Sealer, and Undercoater	Dual	200	134	191	153	80%	5,282,860	5,197,687	98%
	Ext		141	138	99	72%	1,091,791	962,490	88%
	Int		112	335	289	86%	3,845,562	3,806,978	99%
Quick Dry Enamel	Dual	250	380	85	39	46%	422,225	46,608	11%
	Ext		391	2	1	50%	PD	PD	6%
	Int		375	33	6	18%	228,076	3,249	1%
Quick Dry Primer, Sealer, and Undercoater	Dual	200	290	15	6	40%	139,264	45,616	33%
	Ext		439	1	0	0%	PD	PD	0%
	Int		442	17	0	0%	106,343	0	0%
Recycled	Dual	250	175	3	3	100%	120,124	120,124	100%
	Ext		213	4	4	100%	PD	PD	100%
Roof	Ext	250	46	210	193	92%	1,412,343	1,401,767	99%
Rust Preventative	Dual	400	366	294	215	73%	1,169,615	1,063,556	91%
	Ext		306	52	49	94%	116,991	116,334	99%
	Int		366	26	22	85%	576,313	569,687	99%
Sanding Sealers	Dual	350	248	1	1	100%	PD	PD	100%
	Int		203	29	12	41%	25,033	22,873	91%
Shellacs - Clear	Int	730	617	8	8	100%	PD	PD	100%

Table 6-4: 2005 Survey Complying Marketshares (Interior/Exterior/Dual) – SCM Limits
(does not include small containers ≤ 1 quart)

Coating Category	Dual Ext Int	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Comply- ing Products	% of Comply- ing Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Comply- ing Sales
Shellacs - Opaque	Dual	550	521	2	2	100%	PD	PD	100%
Specialty Primer, Sealer, and Undercoater	Dual	350	286	44	42	95%	1,793,464	1,747,740	97%
	Ext		291	21	20	95%	107,841	107,806	100%
	Int		119	24	14	58%	73,073	69,968	96%
Stains - Clear/ Semitransparent	Dual	250	305	58	21	36%	290,180	157,458	54%
	Ext		267	452	233	52%	1,003,083	798,670	80%
	Int		387	257	55	21%	36,926	6,729	18%
Stains - Opaque	Dual	250	144	51	42	82%	19,160	18,157	95%
	Ext		104	366	279	76%	921,550	910,597	99%
	Int		149	6	6	100%	PD	PD	100%
Swimming Pool	Dual	340	215	12	10	83%	3,056	3,050	100%
	Ext		273	22	17	77%	4,796	4,616	96%
Swimming Pool Repair and Maintenance	Dual	340	590	1	0	0%	PD	PD	0%
	Ext		587	2	0	0%	PD	PD	0%
Traffic Marking	Dual	150	92	30	28	93%	81,953	81,493	99%
	Ext		101	215	186	87%	2,132,373	2,128,371	100%
Varnishes - Clear	Dual	350	347	62	26	42%	43,264	34,211	79%
	Ext		319	55	34	62%	69,294	66,693	96%
	Int		301	291	155	53%	353,802	319,648	90%
Varnishes - Semitransparent	Ext	350	260	18	17	94%	8,994	8,992	100%
	Int		445	26	3	12%	1,878	215	11%
Waterproofing Concrete/Masonry Sealers	Dual	400	233	127	114	90%	933,719	907,033	97%
	Ext		158	134	126	94%	573,346	567,367	99%
	Int		126	10	10	100%	2,337	2,337	100%
Waterproofing Sealers	Dual	250	64	82	67	82%	489,309	473,400	97%
	Ext		242	99	56	57%	1,097,717	806,526	73%
	Int		171	8	8	100%	35,054	35,054	100%
Wood Preservatives	Dual	350	917	1	0	0%	PD	PD	0%
	Ext		325	28	26	93%	158,683	156,260	98%
Dual Subtotals:				5,137	3,450	67%	29,940,952	27,018,263	90%
Exterior Subtotals:				4,207	3,346	80%	32,153,529	31,076,198	97%
Interior Subtotals:				5,754	4,477	78%	44,803,642	40,210,449	90%
TOTALS:				15,098	11,273	75%	106,898,123	98,304,911	92%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. “% of Complying Sales” represents the percent (by sales volume in gallons) that complied with the SCM VOC limits that were effective in 2004.
3. Sales of exempt small containers (1 quart or less) were NOT included when determining complying marketshare percentages.

Table 6-5 contains an evaluation of complying marketshares, based on the future limits in SCAQMD Rule 1113 that will take effect in or before 2008. Since the 2005 Survey represents coatings that were sold in 2004, it is not expected that coatings had yet been reformulated to meet the 2005-2008 VOC limits. Therefore, some of the complying

marketshares are quite low, but they provide an indication of how much of the market will need to be reformulated to meet the upcoming limits.

Table 6-5: 2005 Survey Complying Marketshares – Future SCAQMD Limits

(does not include small containers ≤ 1 quart)

ARB Category (SCAQMD Corresponding Category)	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Bituminous Roof (Roof)	50	37	81	32	40%	1,550,570	1,317,342	85%
Bituminous Roof Primer (Roof Primers, Bituminous)	350	324	31	15	48%	68,092	53,861	79%
Bond Breakers	350	302	13	9	69%	PD	PD	73%
Clear Brushing Lacquer	275	666	4	0	0%	PD	PD	0%
Concrete Curing Compounds	100	166	115	40	35%	891,256	311,478	35%
Driveway Sealer (Traffic)	100	3	45	41	91%	PD	PD	100%
Dry Fog	150	235	70	31	44%	373,042	157,802	42%
Faux Finishing (Japans/Faux Finishing)	350	204	273	261	96%	235,239	229,547	98%
Fire Resistive (Fire-Proofing Exterior)	350	124	7	6	86%	PD	PD	99%
Fire Retardant - Clear	650	531	4	4	100%	PD	PD	100%
Fire Retardant - Opaque (Fire Retardant - Pigmented)	350	325	11	11	100%	PD	PD	100%
Flat	50	81	2,438	360	15%	36,699,154	2,390,135	7%
Floor	50	104	411	34	8%	1,382,564	74,806	5%
Form Release Compounds (Default)	250	233	39	34	87%	323,612	314,477	97%
Graphic Arts	500	314	91	91	100%	PD	PD	100%
High Temperature (High Temperature IM)	420	366	81	57	70%	8,116	7,296	90%
Industrial Maintenance	100	208	2,958	695	23%	2,057,855	399,934	19%
Lacquers (Clear Wood Finishes - Lacquer; Pigmented Lacquer)	275	458	724	149	21%	1,259,664	352,625	28%
Low Solids	120	60	32	32	100%	65,290	65,290	100%
Magnesite Cement	450	446	16	16	100%	PD	PD	100%

Table 6-5: 2005 Survey Complying Marketshares – Future SCAQMD Limits
(does not include small containers ≤ 1 quart)

ARB Category (SCAQMD Corresponding Category)	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Mastic Texture (Mastic)	300	98	78	76	97%	PD	PD	99%
Metallic Pigmented	500	300	190	184	97%	637,666	637,020	100%
Multi-Color	250	94	12	9	75%	PD	PD	100%
Nonflat - High Gloss	50	153	315	4	1%	1,657,983	2,296	0%
Nonflat - Low Gloss (Nonflat Coating)	50	118	1,106	76	7%	11,612,029	397,033	3%
Nonflat - Medium Gloss (Nonflat Coating)	50	127	1,956	186	10%	19,312,731	770,455	4%
Other (Default)	250	64	44	25	57%	90,708	87,214	96%
Pre-Treatment Wash Primer	420	167	5	3	60%	4,602	4,570	99%
Primer, Sealer, and Undercoater	100	127	664	329	50%	10,220,213	3,797,353	37%
Quick Dry Enamel	50	380	120	1	1%	746,027	215	0%
Quick Dry Primer, Sealer, and Undercoater	100	356	33	1	3%	245,632	25,253	10%
Recycled	250	193	7	7	100%	223,381	223,381	100%
Roof	50	46	210	118	56%	1,412,343	1,168,982	83%
Rust Preventative	100	362	372	11	3%	1,862,919	7,909	0%
Sanding Sealers	275	203	30	11	37%	25,058	21,448	86%
Shellacs - Clear	730	617	8	8	100%	PD	PD	100%
Shellacs - Opaque (Shellac - Pigmented)	550	521	2	2	100%	PD	PD	100%
Specialty Primer, Sealer, and Undercoater (Specialty Primers)	100	280	89	23	26%	1,974,378	422,963	21%
Stains, Exterior/Dual	100	204	927	101	11%	2,233,974	729,321	33%
Stains, Interior	250	346	263	61	23%	44,562	14,365	32%
Swimming Pool (Swimming Pool - Other)	340	250	34	27	79%	PD	PD	98%
Swimming Pool Repair and Maintenance (Swimming Pool - Repair)	340	588	3	0	0%	PD	PD	0%
Traffic Marking (Traffic)	100	101	245	158	64%	2,214,326	1,642,189	74%

Table 6-5: 2005 Survey Complying Marketshares – Future SCAQMD Limits
(does not include small containers ≤ 1 quart)

ARB Category (SCAQMD Corresponding Category)	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Varnishes - Clear (Varnish)	275	308	408	111	27%	466,360	166,736	36%
Varnishes - Semitransparent (Varnish)	275	292	44	14	32%	10,872	8,386	77%
Waterproofing Concrete/Masonry Sealers	100	204	271	75	28%	1,509,402	350,394	23%
Waterproofing Sealers	100	187	189	71	38%	1,622,079	509,315	31%
Wood Preservatives	350	325	29	26	90%	158,810	156,260	98%
TOTALS:			15,098	3,636	24%	106,898,123	20,393,889	19%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. “% of Complying Sales” represents the percent (by sales volume in gallons) that complied with the SCAQMD VOC limits that become effective in or before 2008.
3. Sales of exempt small containers (1 quart or less) were NOT included when determining complying marketshare percentages.

Notes on specific coating categories:

Metallic Pigmented: The complying marketshare for the “Metallic Pigmented” category is probably too high, when compared to SCAQMD limits, because ARB and SCAQMD have different definitions for “Metallic Pigmented”. ARB’s definition includes aluminum roof coatings and the products reported in the survey under “Metallic Pigmented” seem to be primarily aluminum roof coatings. ARB’s SCM has a VOC limit of 500 g/l for “Metallic Pigmented” (including aluminum roof coatings) and the complying marketshare is very high for this limit. SCAQMD has a separate category called “Roof Coatings, Aluminum” which has a much lower 100 g/l VOC limit that became effective January 1, 2005, so it is expected that the complying marketshare for the SCAQMD limit is very low, based on the SWA VOC value.

Specialty Primer, Sealer, Undercoater: The complying marketshare for the “Specialty PSU” category may not be representative, when compared to SCAQMD limits, because ARB and SCAQMD have different definitions for “Specialty PSU”. ARB’s definition includes primers with stain-blocking properties, but SCAQMD’s does not. Many of the products reported in the survey under “Specialty PSU” only claim stain-blocking properties, so they probably would not qualify as a Specialty PSU under the SCAQMD definition. ARB’s SCM has a VOC limit of 350 g/l for “Specialty PSU” while SCAQMD has a VOC limit of 250 g/l, effective July 1, 2006, and a VOC limit of 100 g/l, that becomes effective July 1, 2007.

For comparison purposes, Table 6-6 contains the complying marketshares from the previous 2001 Survey, based on future SCAQMD VOC limits that take effect in or before 2008. Since the 2001 Survey represented coatings that were sold in 2000, it is not expected that coatings had yet been reformulated to meet the 2005-2008 VOC limits.

Table 6-6: Previous 2001 Survey Complying Marketshares – Future SCAQMD Limits
(does not include small containers < 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Antenna (Industrial Maintenance)	100	434	6	0	0%	PD	PD	0%
Bituminous Roof (Roof)	50	120	193	49	25%	3,239,994	1,712,939	53%
Bituminous Roof Primer (Roof Primers, Bituminous)	350	211	28	14	50%	170,520	125,163	73%
Bond Breakers	350	244	11	10	91%	93,896	89,936	96%
Clear Brushing Lacquer	275	667	3	0	0%	PD	PD	0%
Concrete Curing Compounds	100	145	108	41	38%	692,285	335,591	48%
Dry Fog	150	258	89	37	42%	459,756	154,288	34%
Faux Finishing (Japans/Faux Finishing)	350	220	78	41	53%	128,949	128,718	100%
Fire Resistive (Fire-Proofing Exterior)	350	45	2	2	100%	PD	PD	100%
Fire Retardant - Clear	650	4	9	9	100%	PD	PD	100%
Fire Retardant - Opaque (Fire Retardant - Pigmented)	350	94	20	17	85%	PD	PD	99%
Flat	50	96	3514	367	10%	34,405,612	2,839,654	8%
Floor	50	99	715	111	16%	1,403,122	688,922	49%
Flow (Industrial Maintenance)	100	412	1	0	0%	PD	PD	0%
Form Release Compounds (Default)	250	213	33	29	88%	255,724	255,208	100%
Graphic Arts	500	232	117	102	87%	19,913	19,788	99%
High Temperature (High Temperature IM)	420	400	93	60	65%	PD	PD	90%
Industrial Maintenance	100	293	3751	312	8%	4,527,107	517,868	11%

Table 6-6: Previous 2001 Survey Complying Marketshares – Future SCAQMD Limits
(does not include small containers ≤ 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Lacquers (Clear Wood Finishes - Lacquer; Pigmented Lacquer)	275	579	437	36	8%	427,182	31,529	7%
Low Solids	120	59	4	4	100%	13,284	13,284	100%
Magnesite Cement	450	443	18	18	100%	PD	PD	100%
Mastic Texture (Mastic)	300	133	62	61	98%	628,585	584,515	93%
Metallic Pigmented	500	408	166	155	93%	613,031	611,521	100%
Multi-Color	250	221	17	6	35%	PD	PD	78%
Nonflat - High Gloss	50	243	842	1	0%	1,781,198	944	0%
Nonflat - Low Gloss (Nonflat Coating)	50	128	1375	77	6%	6,449,909	218,113	3%
Nonflat - Medium Gloss (Nonflat Coating)	50	169	2569	75	3%	17,468,318	102,741	1%
Other (Default)	250	1	53	44	83%	1,505,551	1,503,741	100%
Pre-Treatment Wash Primer	420	175	21	15	71%	25,420	23,802	94%
Primer, Sealer, and Undercoater	100	152	905	283	31%	7,941,252	2,626,489	33%
Quick Dry Enamel	50	358	166	0	0%	PD	PD	0%
Quick Dry Primer, Sealer, and Undercoater	100	365	121	3	2%	1,611,339	39,442	2%
Recycled	250	204	6	4	67%	323,216	264,382	82%
Roof	50	68	176	56	32%	1,134,869	503,271	44%
Rust Preventative	100	330	81	3	4%	180,522	1,047	1%
Sanding Sealers	275	425	40	15	38%	16,098	5,831	36%
Shellacs - Clear	730	596	9	9	100%	PD	PD	100%
Shellacs - Opaque (Shellac - Pigmented)	550	538	3	3	100%	PD	PD	100%
Specialty Primer, Sealer, and Undercoater (Specialty Primers)	100	119	46	10	22%	369,187	296,685	80%
Stains, Exterior/Dual	100	263	1315	126	10%	2,741,425	313,266	11%
Stains, Interior	250	348	428	8	2%	70,837	4,015	6%
Swimming Pool (Swimming Pool - Other)	340	276	32	28	88%	21,835	20,263	93%

Table 6-6: Previous 2001 Survey Complying Marketshares – Future SCAQMD Limits
(does not include small containers ≤ 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Swimming Pool Repair and Maintenance (Swimming Pool - Repair)	340	573	7	0	0%	15,046	0	0%
Traffic Marking (Traffic)	100	116	270	129	48%	3,338,767	1,080,400	32%
Varnishes - Clear (Varnish)	275	304	414	83	20%	662,630	235,508	36%
Varnishes - Semitransparent (Varnish)	275	291	13	4	31%	1,784	1,049	59%
Waterproofing Concrete/Masonry Sealers	100	206	127	61	48%	700,028	285,206	41%
Waterproofing Sealers	100	250	234	76	32%	1,006,632	256,122	25%
Wood Preservatives	350	347	96	66	69%	164,950	148,315	90%
TOTALS:			18,824	2,660	14%	95,441,859	16,219,471	17%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. “% of Complying Sales” represents the percent (by sales volume in gallons) that complied with the SCAQMD VOC limits that become effective in or before 2008.
3. Sales of exempt small containers (1 quart or less) were NOT included when determining complying marketshare percentages.

Table 6-7 contains a “quarts only” evaluation of complying marketshare, based on future SCAQMD VOC limits that take effect in or before 2008. Sales of large containers were not included when calculating the values in this table. If a particular coating category did not have any sales of small containers, it was not included in Table 6-7. Architectural coating regulations generally have an exemption from VOC limits for small containers. However, this exemption is periodically reviewed and the SCAQMD Rule 1113 eliminated the small container exemption for clear wood finishes in 2006.

Table 6-7: 2005 Survey Complying Marketshares (small containers only) – Future SCAQMD Limits
(only includes small containers ≤ 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Bituminous Roof (Roof)	50	175	18	13	72%	4,133	780	19%
Clear Brushing Lacquer	275	666	4	0	0%	PD	PD	0%

Table 6-7: 2005 Survey Complying Marketshares (small containers only) – Future SCAQMD Limits
(only includes small containers ≤ 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Concrete Curing Compounds	100	162	1	0	0%	PD	PD	0%
Driveway Sealer (Traffic)	100	59	1	1	100%	PD	PD	100%
Dry Fog	150	49	1	1	100%	PD	PD	100%
Faux Finishing (Japans/Faux Finishing)	350	439	535	310	58%	68,571	40,283	59%
Fire Retardant - Clear	650	536	1	1	100%	PD	PD	100%
Fire Retardant - Opaque (Fire Retardant - Pigmented)	350	350	1	1	100%	PD	PD	100%
Flat	50	90	897	48	5%	571,525	18,980	3%
Floor	50	212	196	10	5%	9,726	48	0%
Graphic Arts	500	359	132	132	100%	PD	PD	100%
High Temperature (High Temperature IM)	420	499	16	0	0%	3,620	0	0%
Industrial Maintenance	100	311	389	73	19%	26,358	1,058	4%
Lacquers (Clear Wood Finishes - Lacquer; Pigmented Lacquer)	275	376	154	20	13%	36,659	23,449	64%
Low Solids	120	77	3	3	100%	390	390	100%
Mastic Texture (Mastic)	300	67	2	2	100%	PD	PD	100%
Metallic Pigmented	500	376	56	43	77%	13,346	12,653	95%
Multi-Color	250	551	1	0	0%	PD	PD	0%
Nonflat - High Gloss	50	258	305	1	0%	47,673	11	0%
Nonflat - Low Gloss (Nonflat Coating)	50	125	642	31	5%	419,869	11,671	3%
Nonflat - Medium Gloss (Nonflat Coating)	50	160	1,126	65	6%	812,929	27,725	3%
Other (Default)	250	85	18	7	39%	593	556	94%
Pre-Treatment Wash Primer	420	747	6	0	0%	PD	PD	0%
Primer, Sealer, and Undercoater	100	230	251	89	35%	185,496	31,531	17%
Quick Dry Enamel	50	391	58	0	0%	16,257	0	0%

Table 6-7: 2005 Survey Complying Marketshares (small containers only) – Future SCAQMD Limits
(only includes small containers ≤ 1 quart)

Coating Category	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales
Quick Dry Primer, Sealer, and Undercoater	100	433	27	1	4%	18,451	1,221	7%
Roof	50	48	17	10	59%	8,363	6,883	82%
Rust Preventative	100	421	395	1	0%	231,666	411	0%
Sanding Sealers	275	539	22	0	0%	34,911	0	0%
Shellacs - Clear	730	618	3	3	100%	PD	PD	100%
Shellacs - Opaque (Shellac - Pigmented)	550	521	2	2	100%	PD	PD	100%
Specialty Primer, Sealer, and Undercoater (Specialty Primers)	100	303	64	13	20%	45,617	9,025	20%
Stains, Exterior/Dual	100	450	414	9	2%	94,800	487	1%
Stains, Interior	250	492	574	18	3%	445,161	3,366	1%
Traffic Marking (Traffic)	100	122	1	0	0%	PD	PD	0%
Varnishes - Clear (Varnish)	275	479	430	85	20%	505,925	27,019	5%
Varnishes - Semitransparent (Varnish)	275	439	88	8	9%	84,065	10	0%
Waterproofing Concrete/Masonry Sealers	100	348	29	5	17%	14,065	40	0%
Waterproofing Sealers	100	183	14	4	29%	4,565	2,922	64%
Wood Preservatives	350	323	6	6	100%	PD	PD	100%
TOTALS:			6,900	1,016	15%	3,778,551	261,857	7%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. “% of Complying Sales” represents the percent (by sales volume in gallons) that complied with the SCAQMD VOC limits that become effective in or before 2008.
3. Sales of large containers (greater than 1 quart) were not included when determining complying marketshare percentages.

Table 6-8 provides complying marketshares based on recommended exposures (interior, exterior, or dual) and the future SCAQMD VOC limits that take effect in or before 2008. In many cases, manufacturers create different formulations for interior and exterior applications, because different exposures require different coating properties. As a result, VOC levels and complying marketshares may vary for different exposures. Architectural coating regulations do not generally contain VOC limits based on exposure, but SCAQMD Rule 1113 has different VOC limits for Interior and Exterior/Dual Stains.

Table 6-8: 2005 Survey Complying Marketshares (Int/Ext/Dual) – Future SCAQMD Limits
(does not include small containers ≤ 1 quart)

Coating Category	Dual Ext Int	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Comply- ing Products	% of Comply- ing Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Comply- ing Sales
Bituminous Roof (Roof)	Ext	50	37	81	32	40%	1,550,570	1,317,342	85%
Bituminous Roof Primer (Roof Primers, Bituminous)	Ext	350	324	31	15	48%	68,092	53,861	79%
Bond Breakers	Ext	350	302	13	9	69%	PD	PD	73%
Clear Brushing Lacquer	Dual	275	612	1	0	0%	PD	PD	0%
	Int		666	3	0	0%	PD	PD	0%
Concrete Curing Compounds	Dual	100	140	77	29	38%	613,471	260,408	42%
	Ext		222	37	11	30%	277,755	51,070	18%
	Int		560	1	0	0%	PD	PD	0%
Driveway Sealer (Traffic)	Ext	100	3	45	41	91%	PD	PD	100%
Dry Fog	Dual	150	384	6	0	0%	8,730	0	0%
	Ext		80	2	2	100%	PD	PD	100%
	Int		233	62	29	47%	360,467	153,957	43%
Faux Finishing (Japans/Faux Finishing)	Dual	350	277	32	32	100%	PD	PD	100%
	Int		202	241	229	95%	228,537	222,845	98%
Fire Resistive (Fire-Proofing Exterior)	Dual	350	63	3	3	100%	PD	PD	100%
	Int		130	4	3	75%	PD	PD	99%
Fire Retardant - Clear	Dual	650	536	1	1	100%	PD	PD	100%
	Int		527	3	3	100%	PD	PD	100%
Fire Retardant - Opaque (Fire Retardant - Pigmented)	Dual	350	51	4	4	100%	PD	PD	100%
	Int		325	7	7	100%	PD	PD	100%
Flat	Dual	50	87	361	25	7%	5,643,662	296,855	5%
	Ext		80	791	78	10%	13,305,943	532,419	4%
	Int		81	1,286	257	20%	17,749,549	1,560,861	9%
Floor	Dual	50	105	344	20	6%	1,244,845	59,344	5%
	Ext		136	28	2	7%	36,365	166	0%
	Int		78	39	12	31%	101,353	15,296	15%
Form Release Compounds (Other)	Dual	250	238	34	29	85%	310,321	301,186	97%
	Ext		100	5	5	100%	PD	PD	100%
Graphic Arts	Dual	500	314	91	91	100%	PD	PD	100%
High Temperature (High Temperature IM)	Dual	420	380	79	55	70%	7,048	6,228	88%
	Int		279	2	2	100%	PD	PD	100%
Industrial Maintenance	Dual	100	215	2,016	336	17%	1,604,249	216,099	13%
	Ext		235	339	31	9%	183,646	44,825	24%
	Int		143	603	328	54%	269,960	139,010	51%

Table 6-8: 2005 Survey Complying Marketshares (Int/Ext/Dual) – Future SCAQMD Limits
(does not include small containers ≤ 1 quart)

Coating Category	Dual Ext Int	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Comply- ing Products	% of Comply- ing Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Comply- ing Sales
Lacquers (Clear Wood Finishes - Lacquer; Pigmented Lacquer)	Dual	275	170	10	6	60%	71,954	70,683	98%
	Ext		401	6	1	17%	PD	PD	5%
	Int		476	708	142	20%	1,186,723	281,892	24%
Low Solids	Dual	120	26	8	8	100%	7,642	7,642	100%
	Ext		65	21	21	100%	57,388	57,388	100%
	Int		28	3	3	100%	PD	PD	100%
Magnesite Cement	Ext	450	446	16	16	100%	PD	PD	100%
Mastic Texture (Mastic)	Dual	300	141	49	48	98%	PD	PD	100%
	Ext		74	27	26	96%	PD	PD	98%
	Int		99	2	2	100%	PD	PD	100%
Metallic Pigmented	Dual	500	91	81	78	96%	125,679	125,419	100%
	Ext		352	99	96	97%	508,456	508,070	100%
	Int		181	10	10	100%	3,532	3,532	100%
Multi-Color	Int	250	94	12	9	75%	PD	PD	100%
Nonflat - High Gloss (Nonflat Coating)	Dual	50	161	206	2	1%	913,699	1,176	0%
	Ext		141	57	0	0%	16,811	0	0%
	Int		142	52	2	4%	727,473	1,120	0%
Nonflat - Low Gloss (Nonflat Coating)	Dual	50	125	156	1	1%	2,118,280	21,024	1%
	Ext		106	312	14	4%	1,710,710	83,607	5%
	Int		118	638	61	10%	7,783,039	292,402	4%
Nonflat - Medium Gloss (Nonflat Coating)	Dual	50	145	500	10	2%	6,019,341	82,429	1%
	Ext		122	471	50	11%	2,555,259	136,350	5%
	Int		118	985	126	13%	10,738,131	551,676	5%
Other (Default)	Dual	250	9	14	13	93%	17,884	17,879	100%
	Ext		70	7	6	86%	PD	PD	100%
	Int		82	23	6	26%	51,016	47,635	93%
Pre-Treatment Wash Primer	Dual	420	167	5	3	60%	4,602	4,570	99%
Primer, Sealer, and Undercoater	Dual	100	134	191	82	43%	5,282,860	1,192,321	23%
	Ext		141	138	51	37%	1,091,791	362,668	33%
	Int		112	335	196	59%	3,845,562	2,242,364	58%
Quick Dry Enamel	Dual	50	380	85	0	0%	422,225	0	0%
	Ext		391	2	0	0%	PD	PD	0%
	Int		375	33	1	3%	228,076	215	0%
Quick Dry Primer, Sealer, and Undercoater	Dual	100	290	15	1	7%	139,264	25,253	18%
	Ext		439	1	0	0%	PD	PD	0%
	Int		442	17	0	0%	106,343	0	0%
Recycled	Dual	250	175	3	3	100%	120,124	120,124	100%
	Ext		213	4	4	100%	PD	PD	100%
Roof	Ext	50	46	210	118	56%	1,412,343	1,168,982	83%
Rust Preventative	Dual	100	366	294	4	1%	1,169,615	7,104	1%
	Ext		306	52	6	12%	116,991	610	1%
	Int		366	26	1	4%	576,313	195	0%
Sanding Sealers	Dual	275	248	1	1	100%	PD	PD	100%
	Int		203	29	10	34%	25,033	21,423	86%

Table 6-8: 2005 Survey Complying Marketshares (Int/Ext/Dual) – Future SCAQMD Limits
(does not include small containers ≤ 1 quart)

Coating Category	Dual Ext Int	VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Comply- ing Products	% of Comply- ing Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Comply- ing Sales
Shellacs - Clear	Int	730	617	8	8	100%	PD	PD	100%
Shellacs - Opaque (Shellac - Pigmented)	Dual	550	521	2	2	100%	PD	PD	100%
Specialty Primer, Sealer, and Undercoater (Specialty Primers)	Dual	100	286	44	14	32%	1,793,464	397,372	22%
	Ext		291	21	4	19%	107,841	4,865	5%
	Int	119	24	5	21%	73,073	20,726	28%	
Stains, Exterior/Dual	Dual	100	295	109	21	19%	309,340	8,496	3%
	Ext		189	818	80	10%	1,924,633	720,825	37%
Stains, Interior	Int	250	346	263	61	23%	44,562	14,365	32%
Swimming Pool (Swimming Pool - Other)	Dual	340	215	12	10	83%	PD	PD	100%
	Ext		273	22	17	77%	PD	PD	96%
Swimming Pool Repair and Maintenance (Swimming Pool - Repair)	Dual	340	590	1	0	0%	PD	PD	0%
	Ext		587	2	0	0%	PD	PD	0%
Traffic Marking (Traffic)	Dual	100	92	30	20	67%	81,953	52,227	64%
	Ext		101	215	138	64%	2,132,373	1,589,962	75%
Varnishes - Clear (Varnish)	Dual	275	347	62	13	21%	43,264	6,132	14%
	Ext		319	55	27	49%	69,294	21,664	31%
	Int		301	291	71	24%	353,802	138,940	39%
Varnishes - Semitransparent (Varnish)	Ext	275	260	18	14	78%	8,994	8,386	93%
	Int		445	26	0	0%	1,878	0	0%
Waterproofing Concrete/Masonry Sealers	Dual	100	233	127	29	23%	933,719	74,651	8%
	Ext		158	134	41	31%	573,346	274,556	48%
	Int		126	10	5	50%	2,337	1,187	51%
Waterproofing Sealers	Dual	100	64	82	46	56%	489,309	408,399	83%
	Ext		242	99	21	21%	1,097,717	99,078	9%
	Int		171	8	4	50%	35,054	1,838	5%
Wood Preservatives	Dual	350	917	1	0	0%	PD	PD	0%
	Ext		325	28	26	93%	158,683	156,260	98%
Dual Subtotals:				5,137	1,040	20%	29,940,952	4,206,777	14%
Exterior Subtotals:				4,207	1,003	24%	32,153,529	10,216,622	32%
Interior Subtotals:				5,754	1,593	28%	44,803,642	5,970,490	13%
TOTALS:				15,098	3,636	24%	106,898,123	20,393,889	19%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. “% of Complying Sales” represents the percent (by sales volume in gallons) that complied with the SCAQMD VOC limits that become effective in or before 2008.
3. Sales of exempt small containers (1 quart or less) were NOT included when determining complying marketshare percentages.

Figures 6-1 and 6-2 contain comparisons of the complying marketshares for the 2001 and 2005 surveys. Sales of small containers (1 quart or less) were not included when determining complying marketshare percentages.

Figure 6-1:
**Comparison of Complying Marketshares – SCM Limits
 2005 vs. 2001 (Part I)**

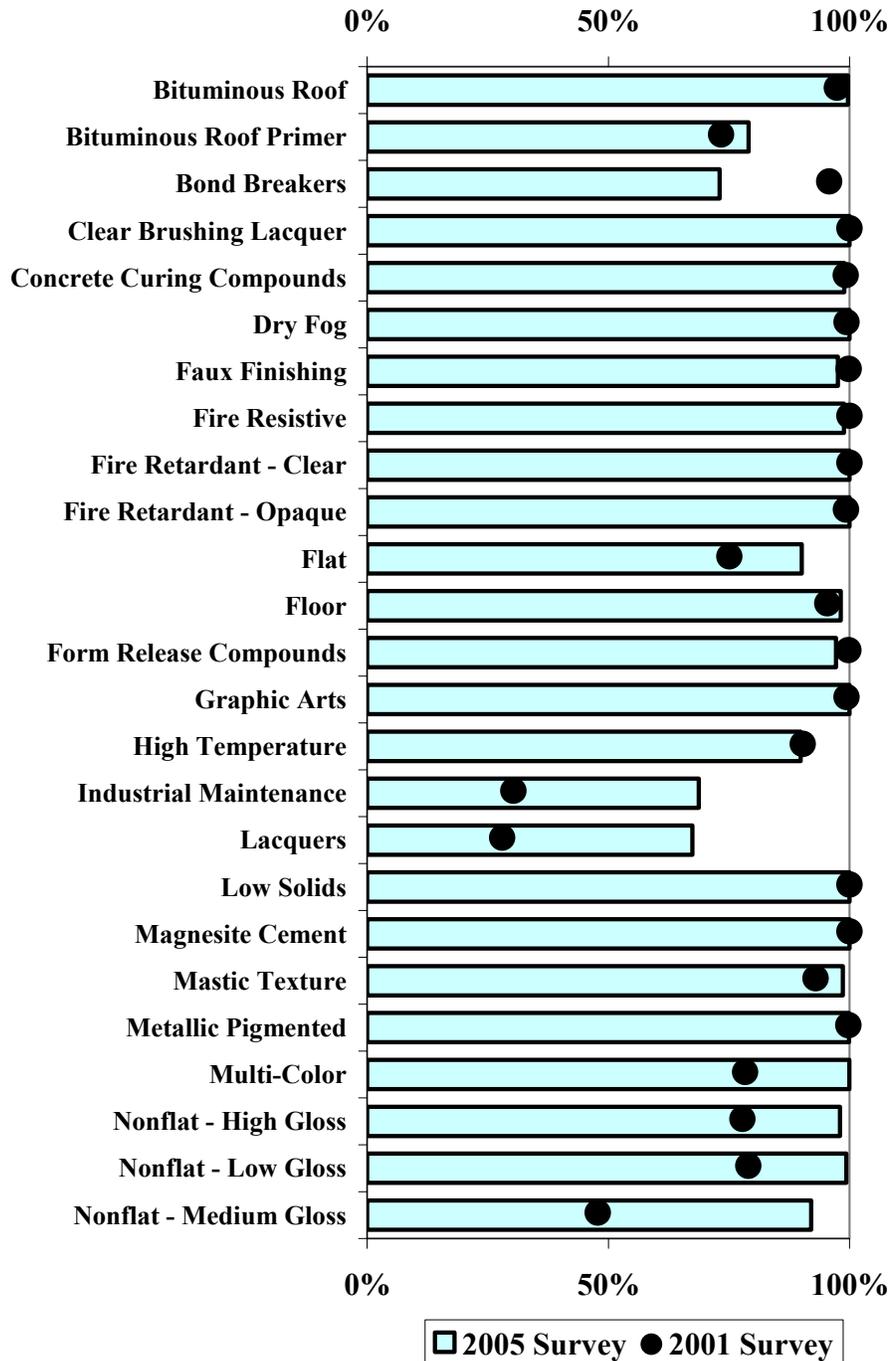
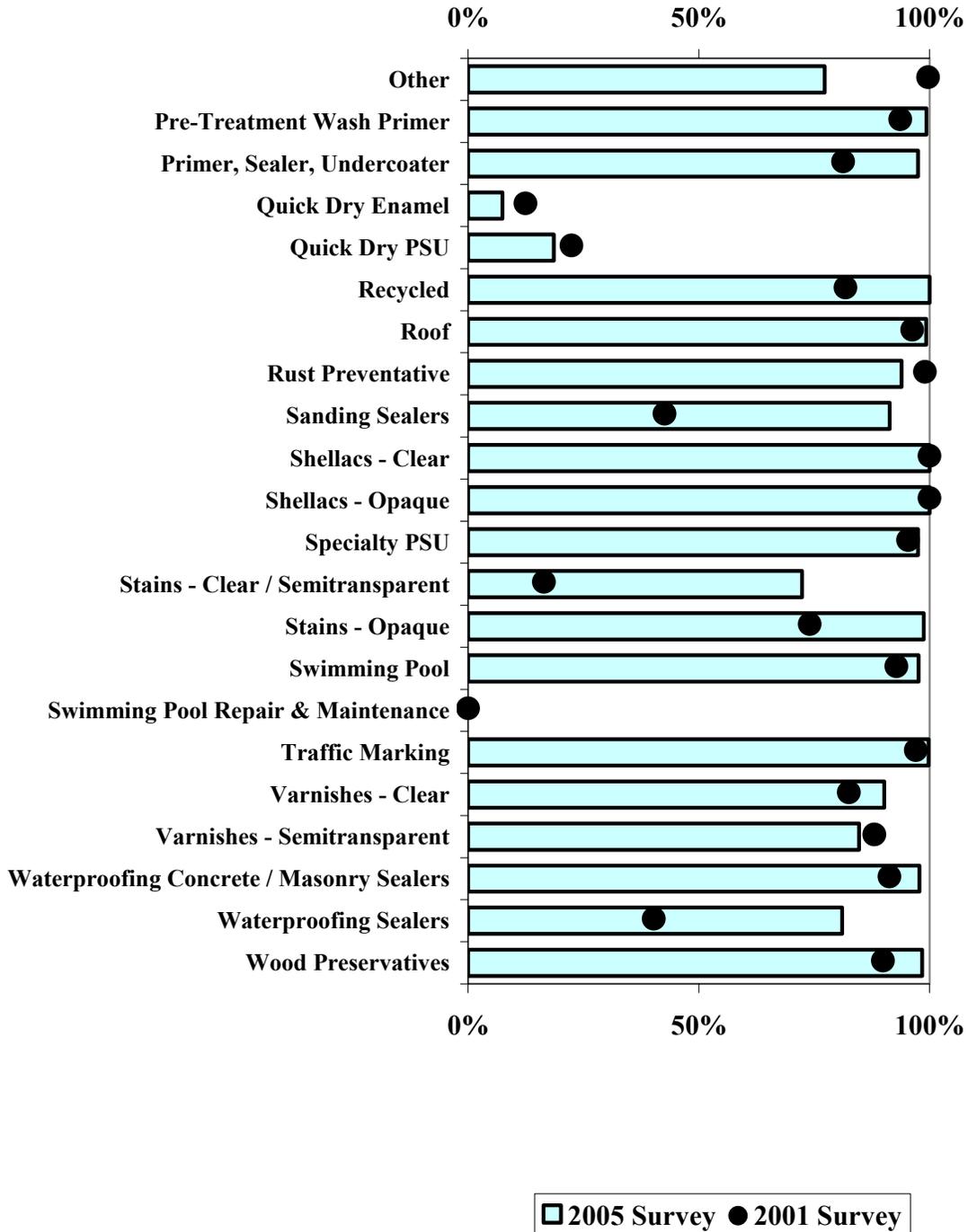


Figure 6-2:
Comparison of Complying Marketshares – SCM Limits
2005 vs. 2001 (Part II)



For most categories, the complying marketshare improved in the 2005 survey or remained approximately the same, as compared to the previous 2001 survey. However, the following categories experienced noticeable declines of more than 5% -

Bond Breakers – For the 2005 survey, sales increased substantially for a product that has a VOC value that is just slightly higher than the VOC limit. The increase in the noncomplying product caused a decline in the complying marketshare from 96% in the 2001 survey to 73% in the 2005 survey.

Other: For the 2005 Survey, the complying marketshare for the “Other” category was 77%, which is a substantial decline from the 2001 Survey value of 100%. This decline was due to a change in the types of coatings that were included in the “Other” category. In the 2001 Survey, the “Other” category consisted primarily of Driveway Sealers which had a 100% complying marketshare. In the 2005 Survey, Driveway Sealers were pulled out as a separate category. The products that remained in the “Other” category had a lower complying marketshare.

Chapter 7 -- Cumulative Percent Graphs of Sales Volume vs. VOC Content

The following cumulative percent graphs were generated for each of the coatings categories with reported sales to depict the percent of sales volume versus the VOC Regulatory level. These graphs were provided to complement the VOC distribution histograms in Chapter 4. The dotted line on the graphs denotes the SCM VOC limit for each coating category. The sales volumes represented by these graphs include small containers (1 quart or less.)

This chapter includes the following data summaries:

Figure 7-1 through Figure 7-48: *Cumulative Percentages of Sales Volume vs. VOC*

Figure 7-1
Bituminous Roof

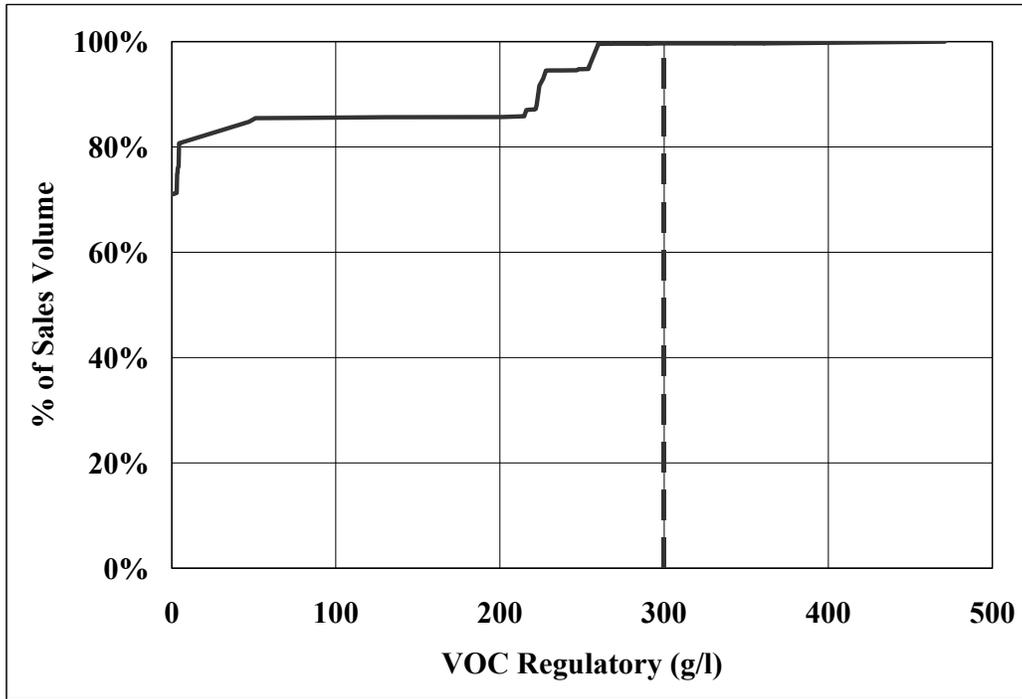


Figure 7-2
Bituminous Roof Primer

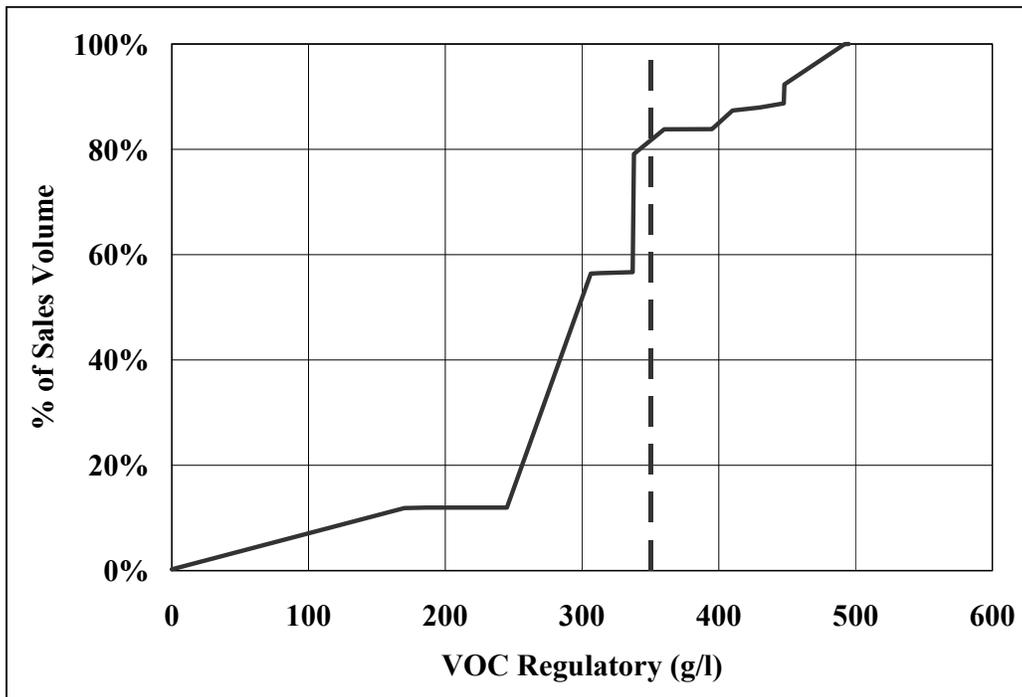


Figure 7-3
Bond Breakers

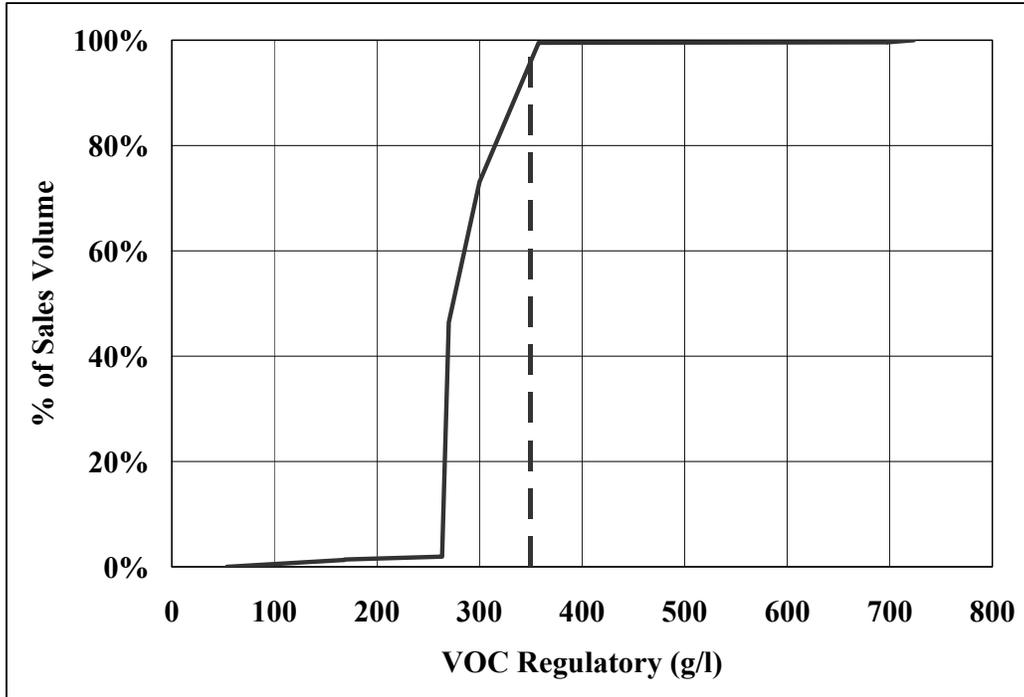


Figure 7-4
Clear Brushing Lacquer

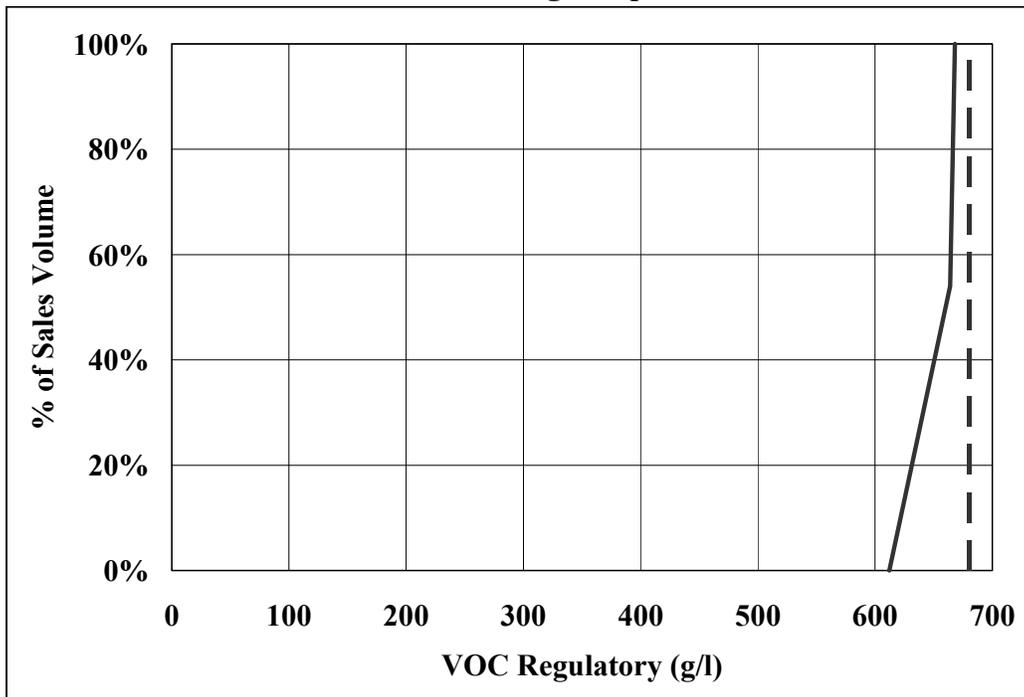


Figure 7-5
Concrete Curing Compounds

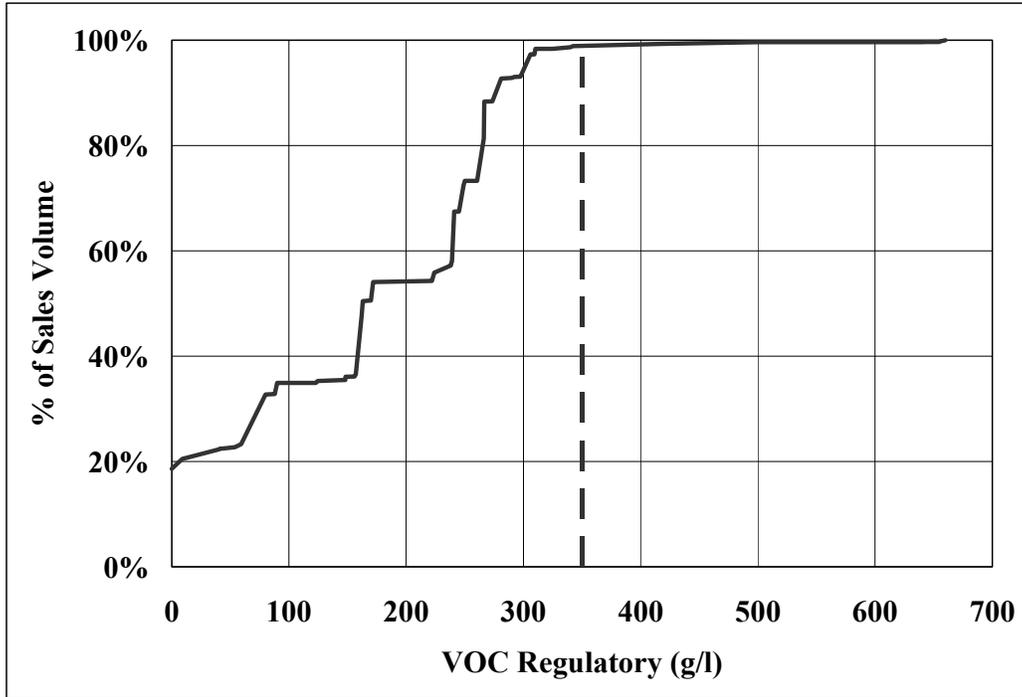


Figure 7-6
Driveway Sealers

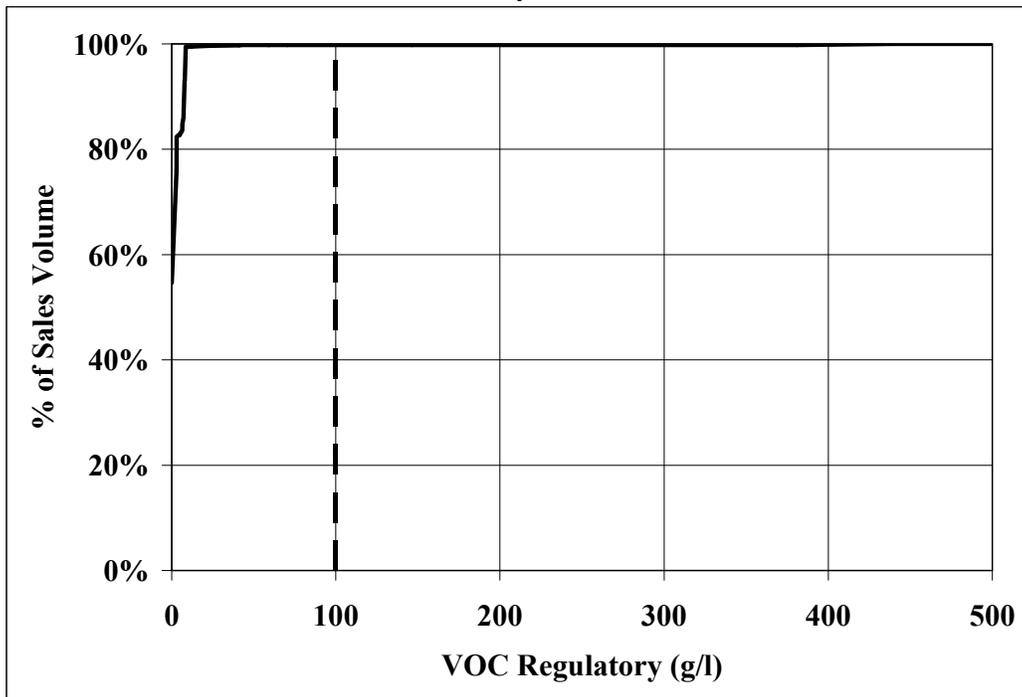


Figure 7-7
Dry Fog

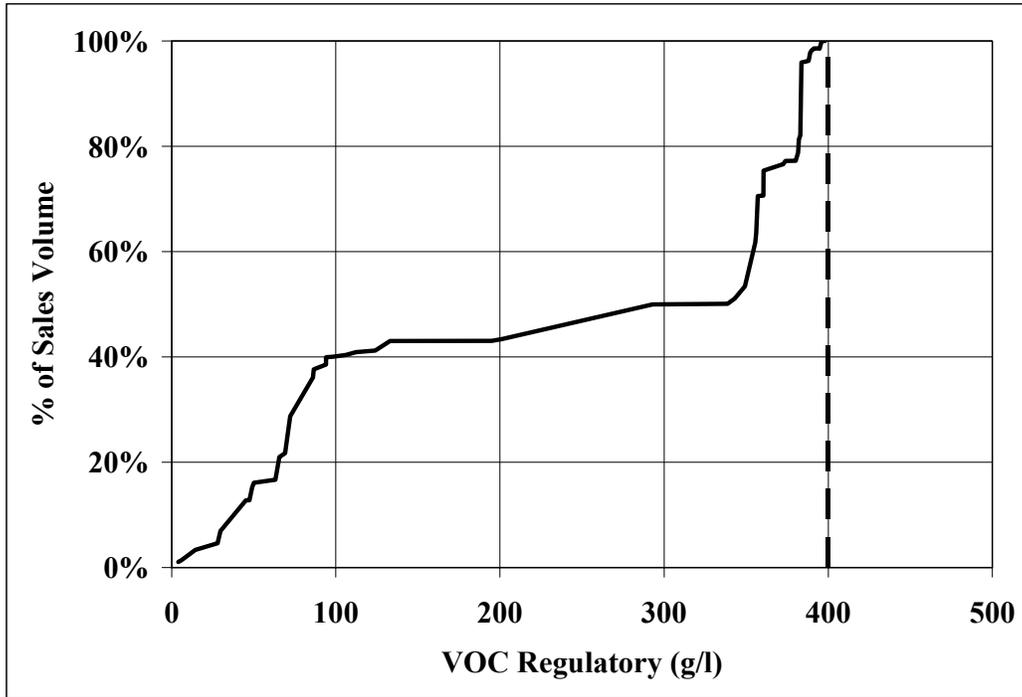


Figure 7-8
Faux Finishing

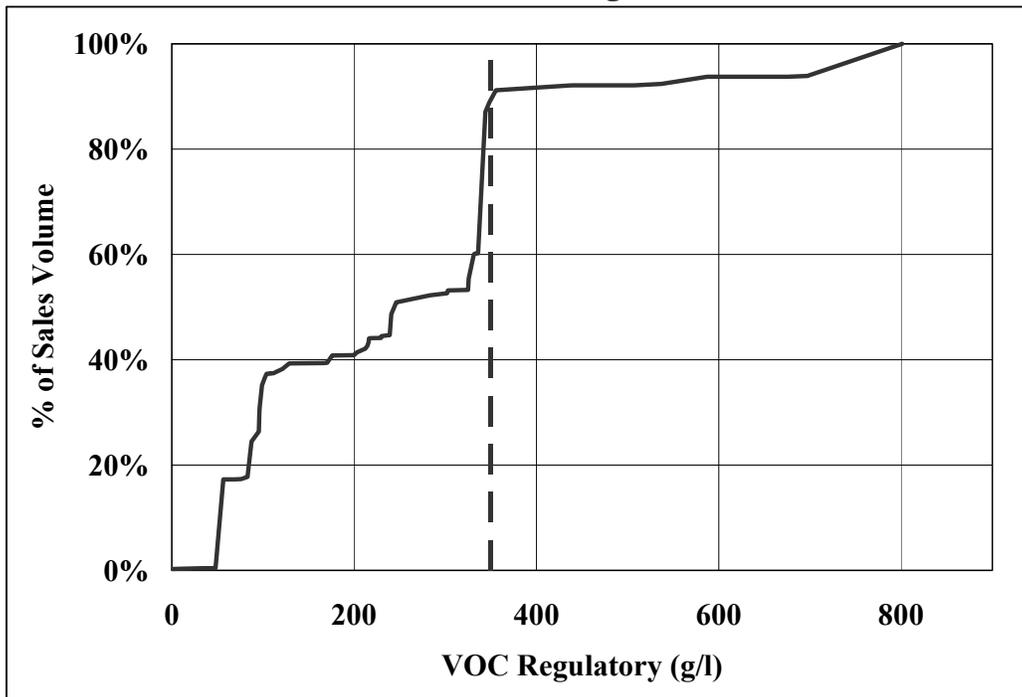


Figure 7-9
Fire Resistive

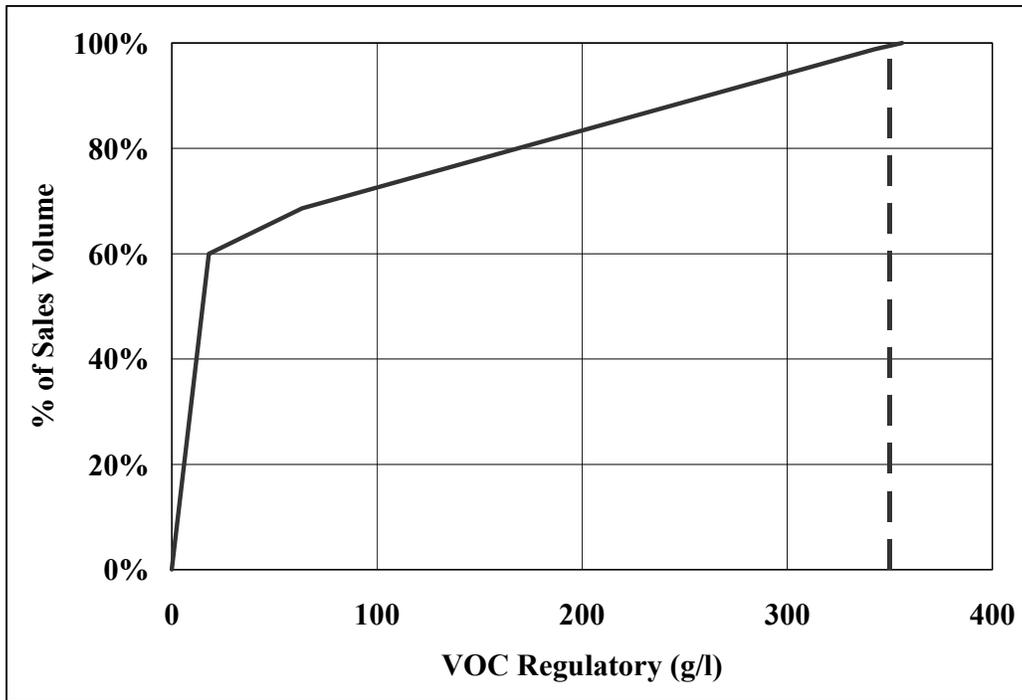


Figure 7-10
Fire Retardant – Clear

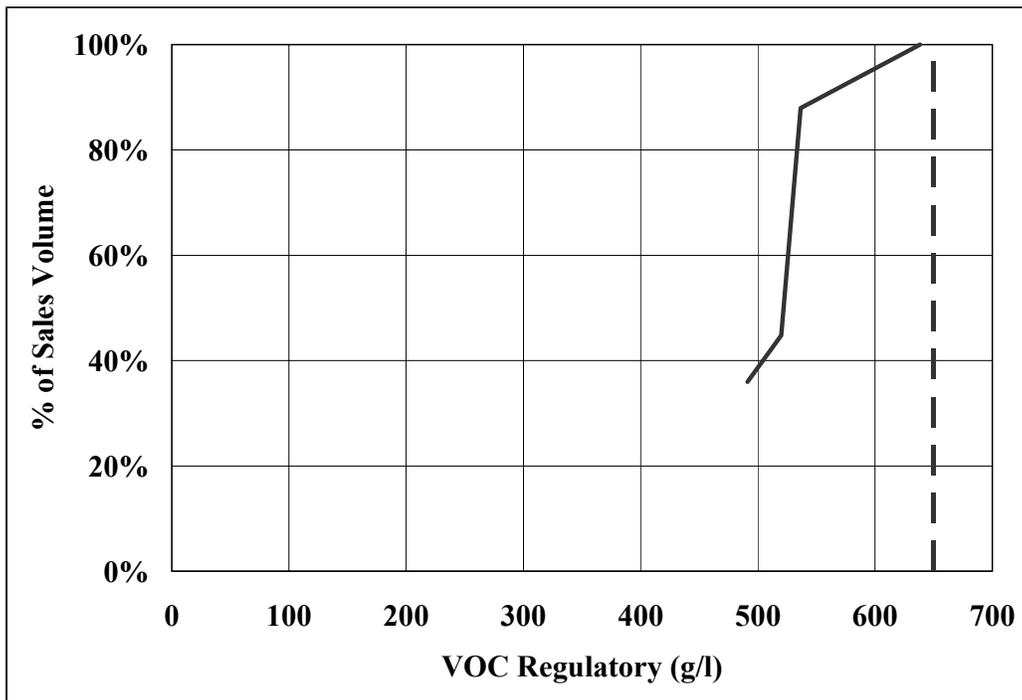


Figure 7-11
Fire Retardant – Opaque

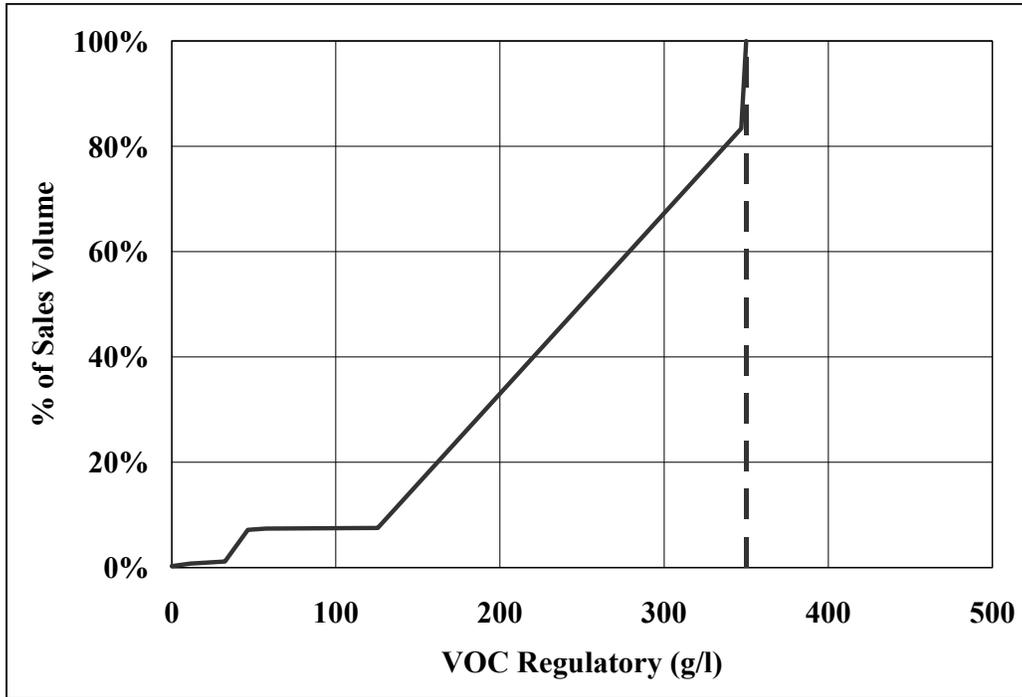


Figure 7-12
Flat

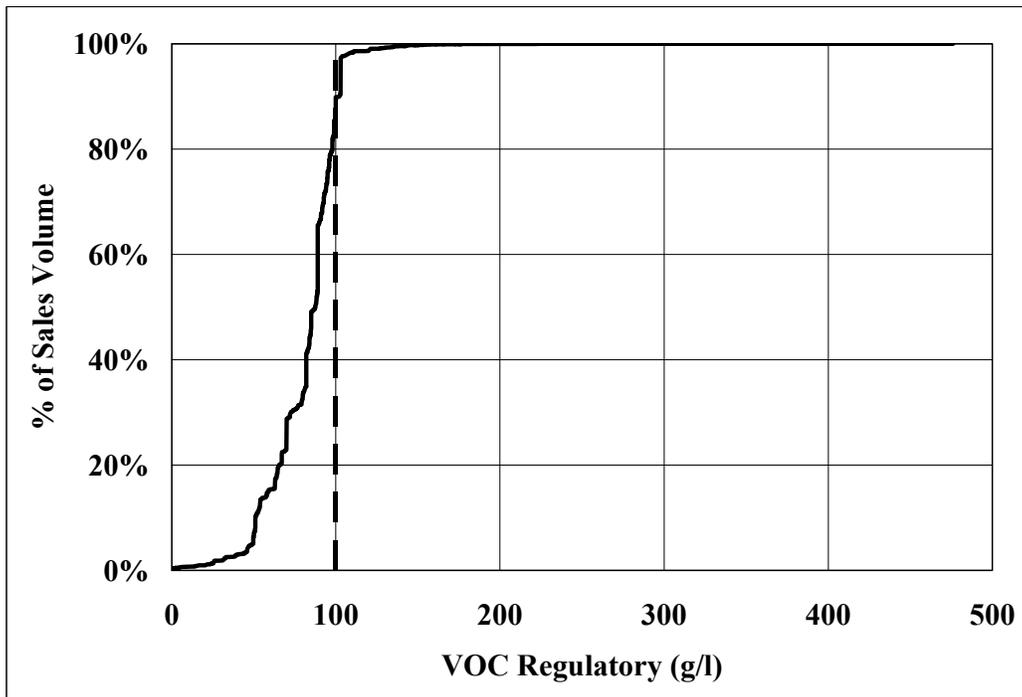


Figure 7-13
Floor

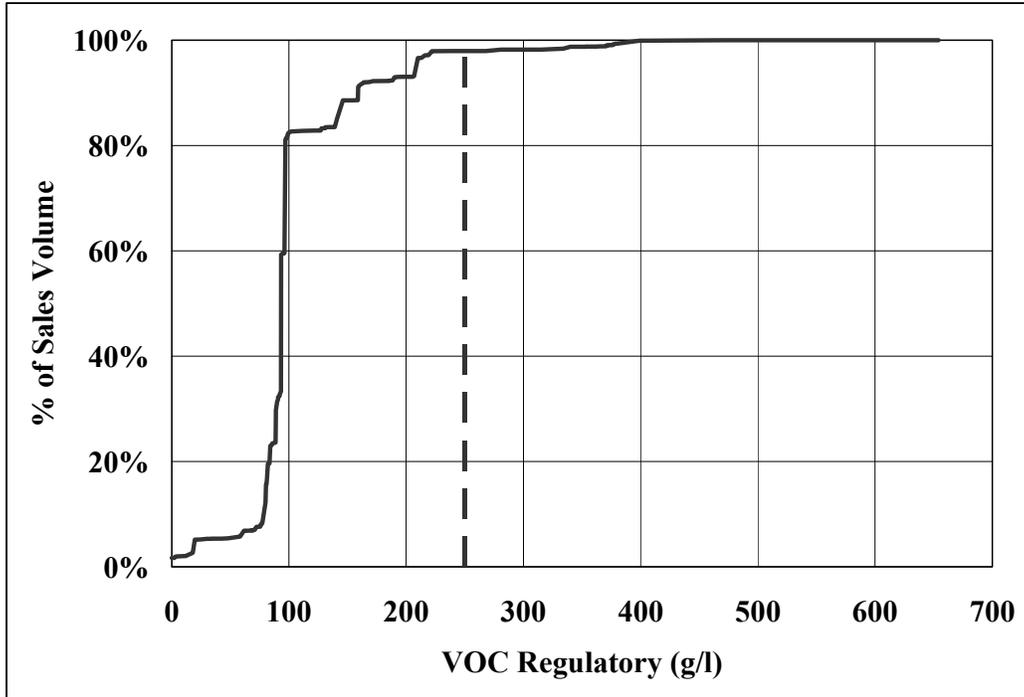


Figure 7-14
Form Release Compounds

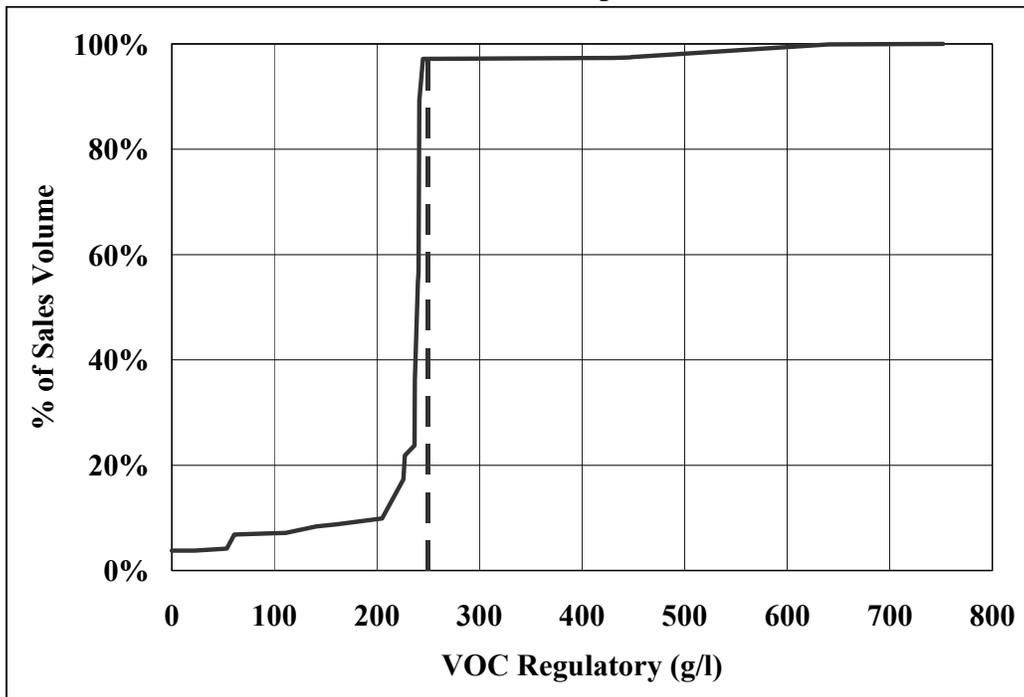


Figure 7-15
Graphic Arts

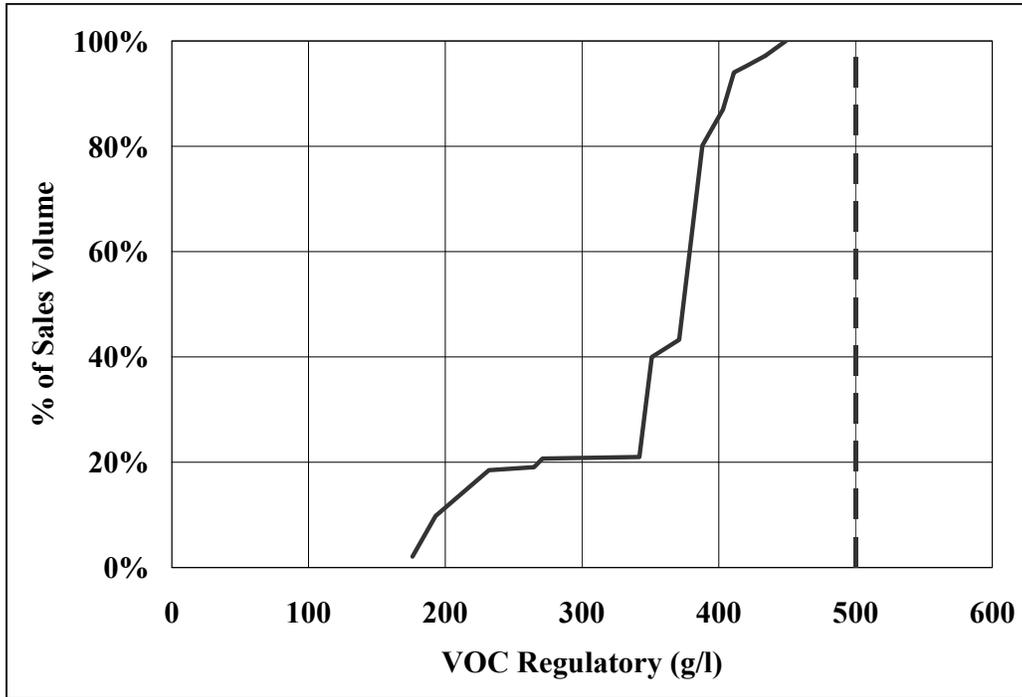


Figure 7-16
High Temperature

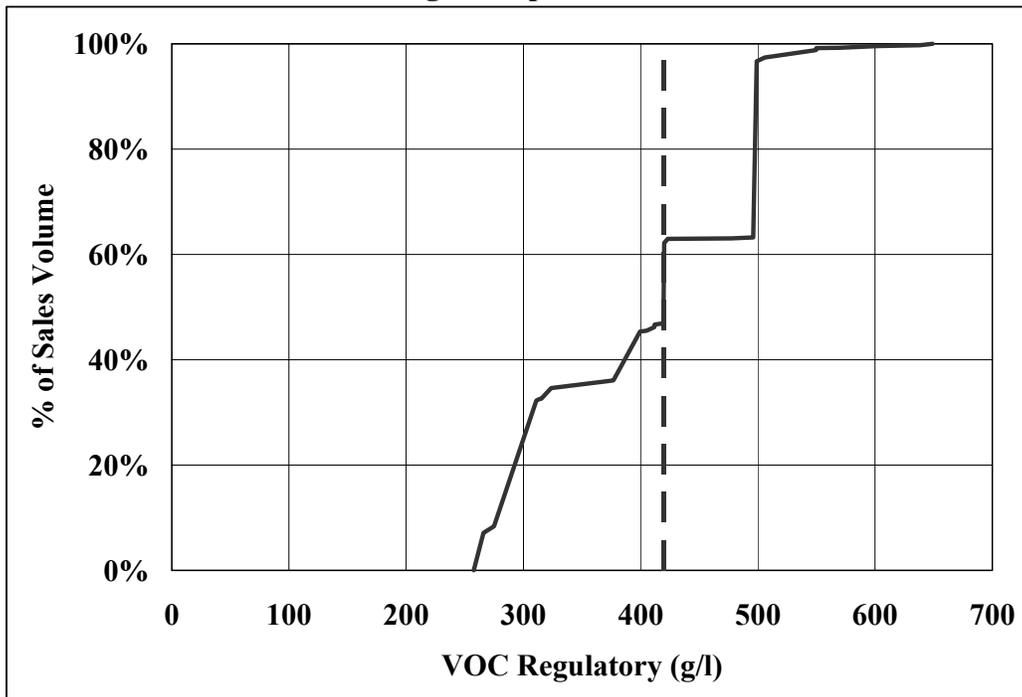


Figure 7-17
Industrial Maintenance

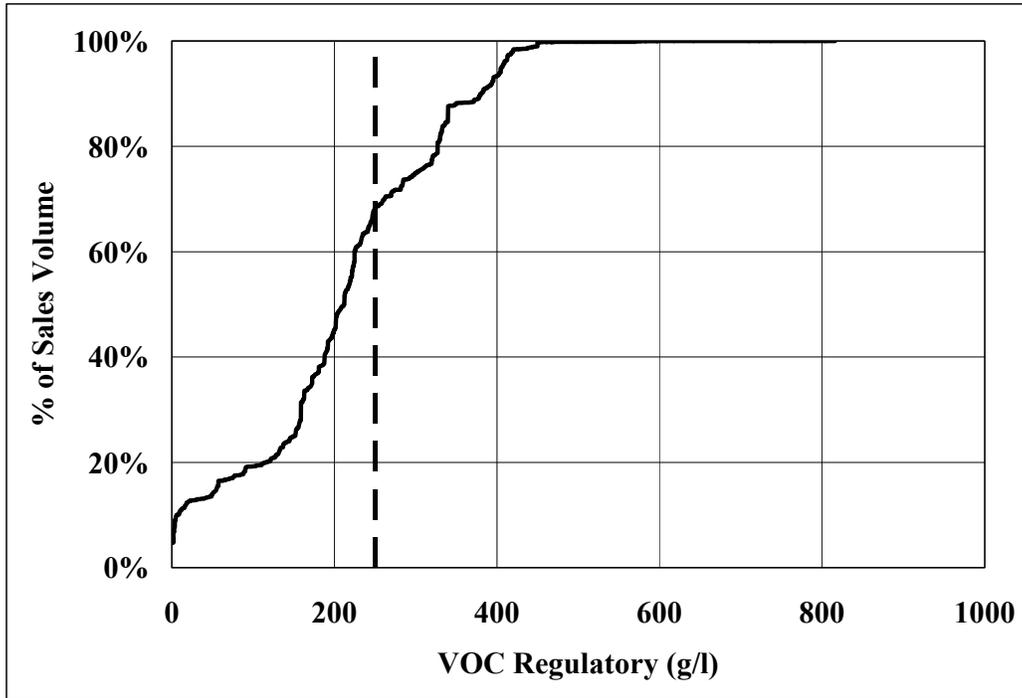


Figure 7-18
Lacquers

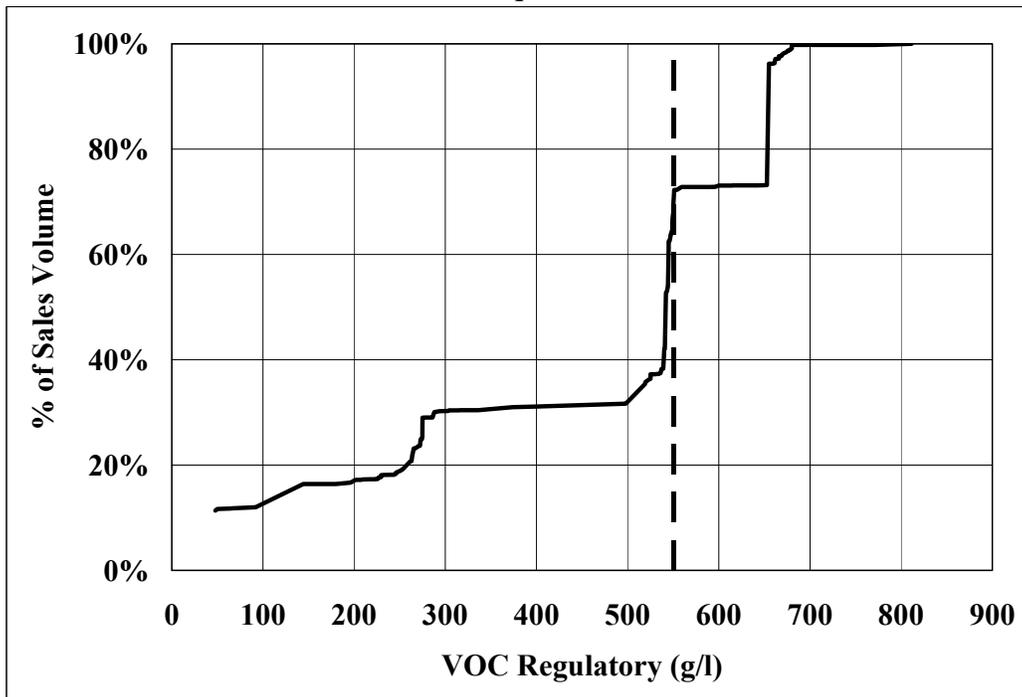
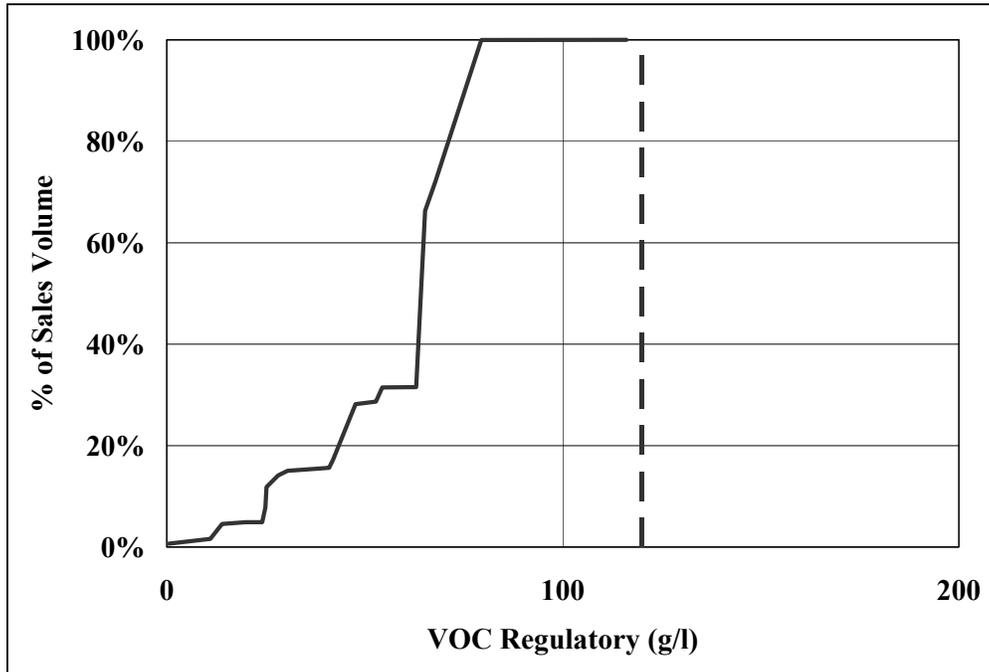


Figure 7-19
Low Solids



Note: For Low Solids coatings, VOC Regulatory equals VOC Actual.

For **Magnesite Cement**, 100% of the products sold complied with the VOC Limit of 450 g/l and no figure is provided, due to the small number of products.

Figure 7-20
Mastic Texture

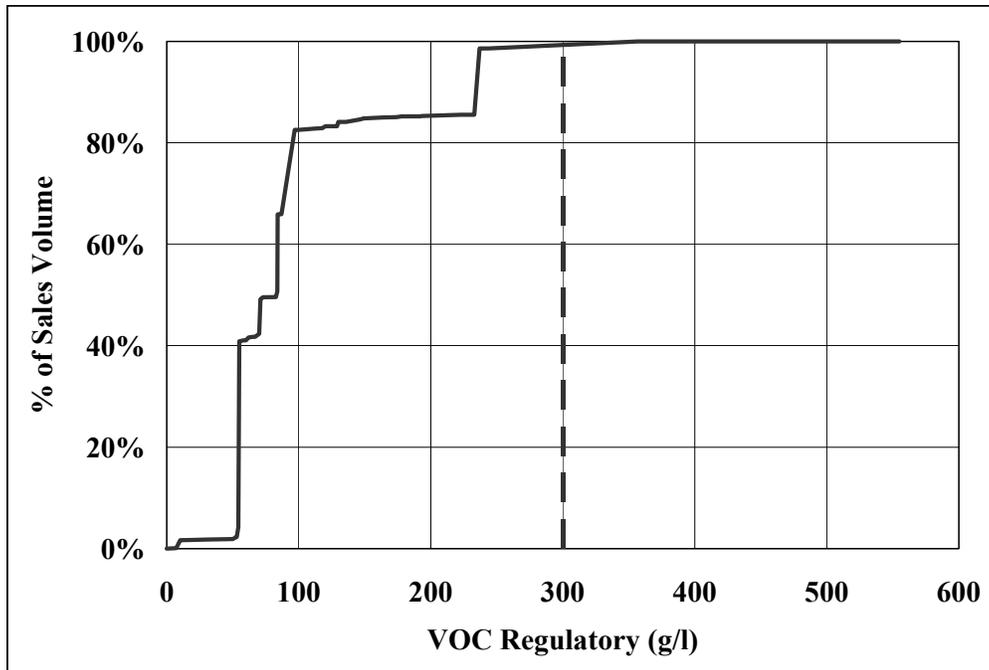


Figure 7-21
Metallic Pigmented

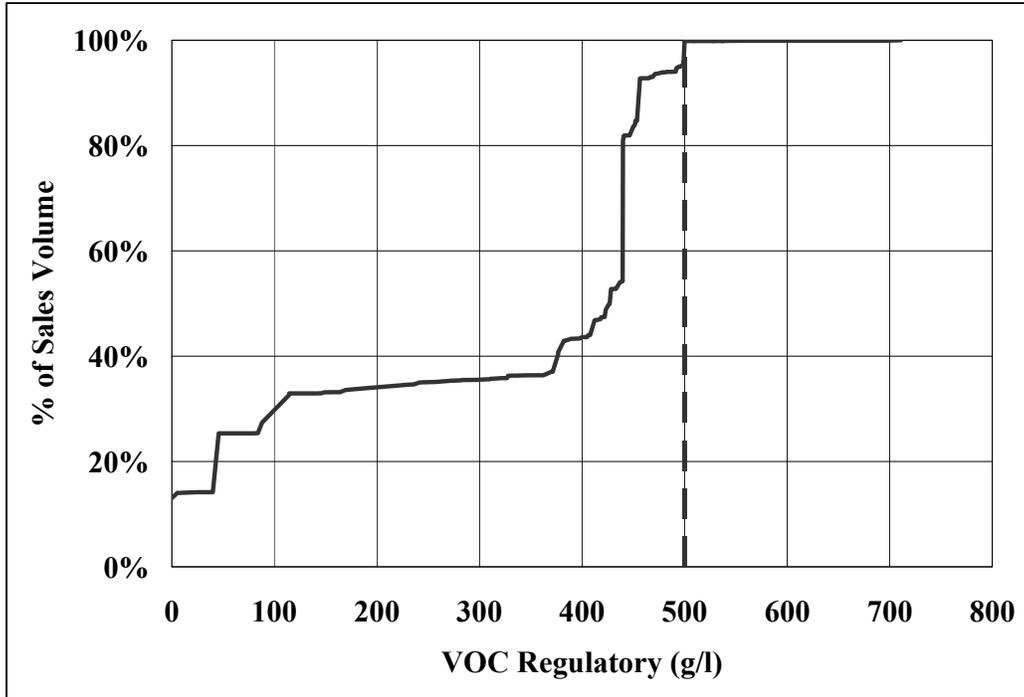


Figure 7-22
Multi-Color

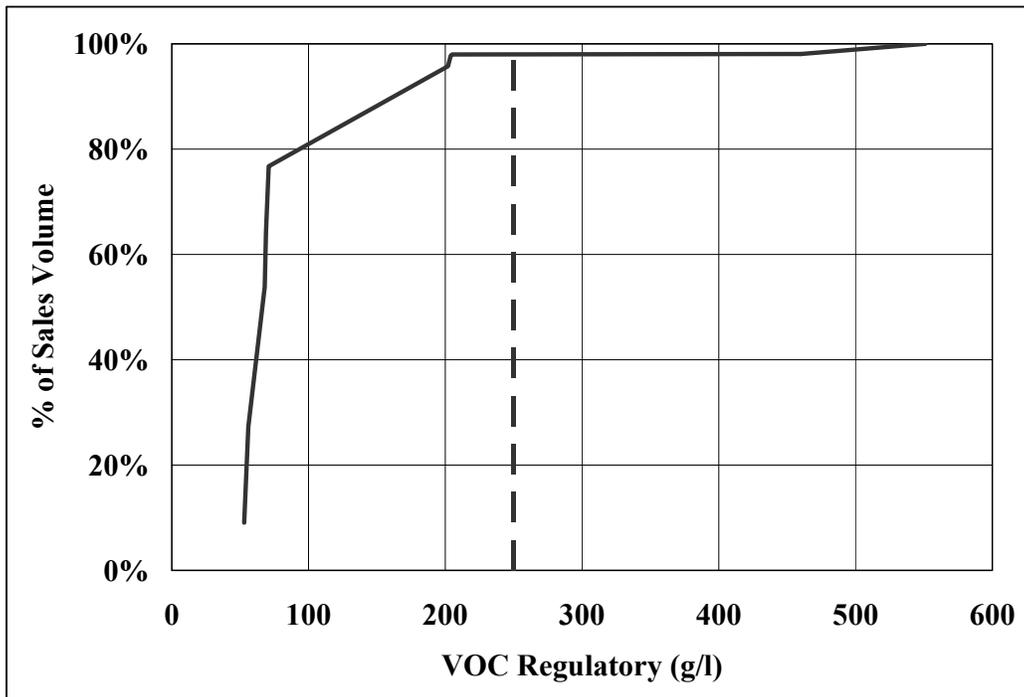


Figure 7-23
Nonflat - High Gloss

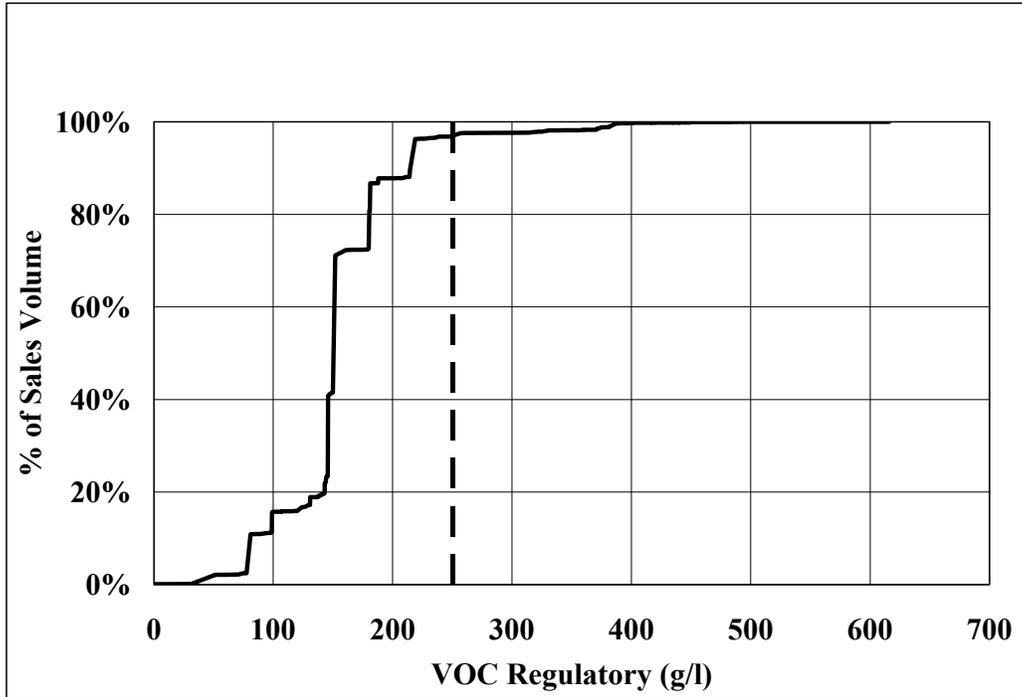


Figure 7-24
Nonflat - Low Gloss

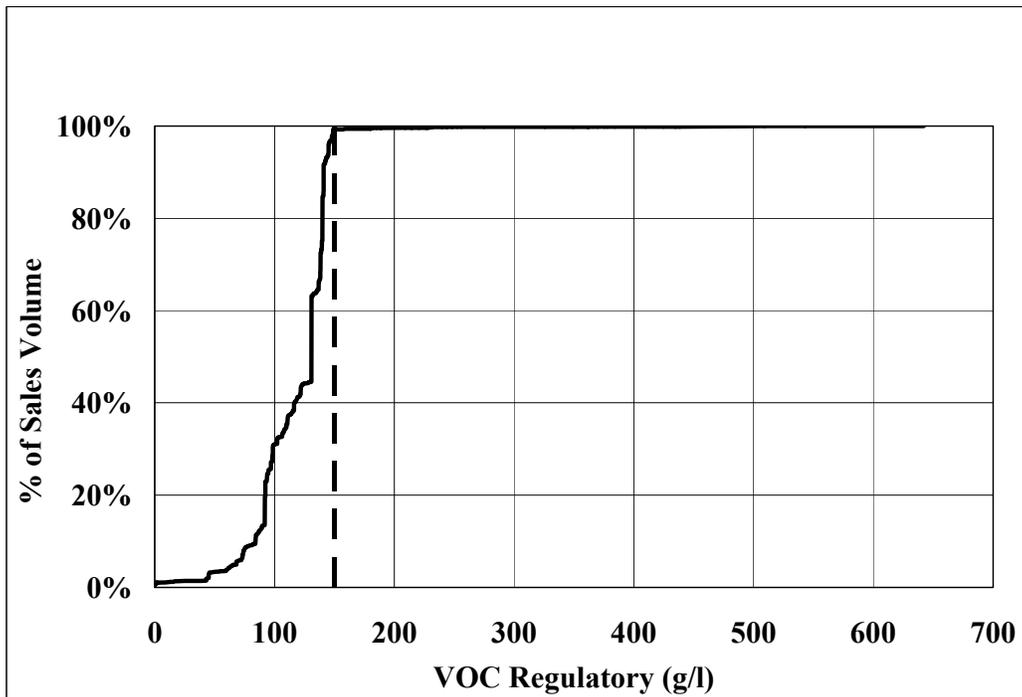


Figure 7-25
Nonflat - Medium Gloss

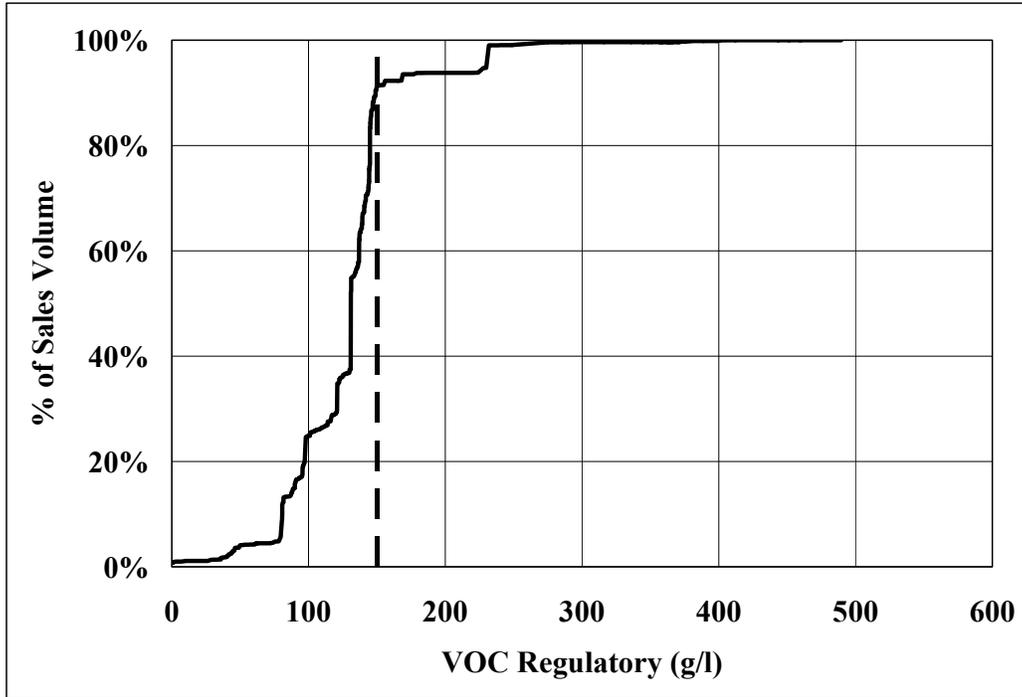


Figure 7-26
Other

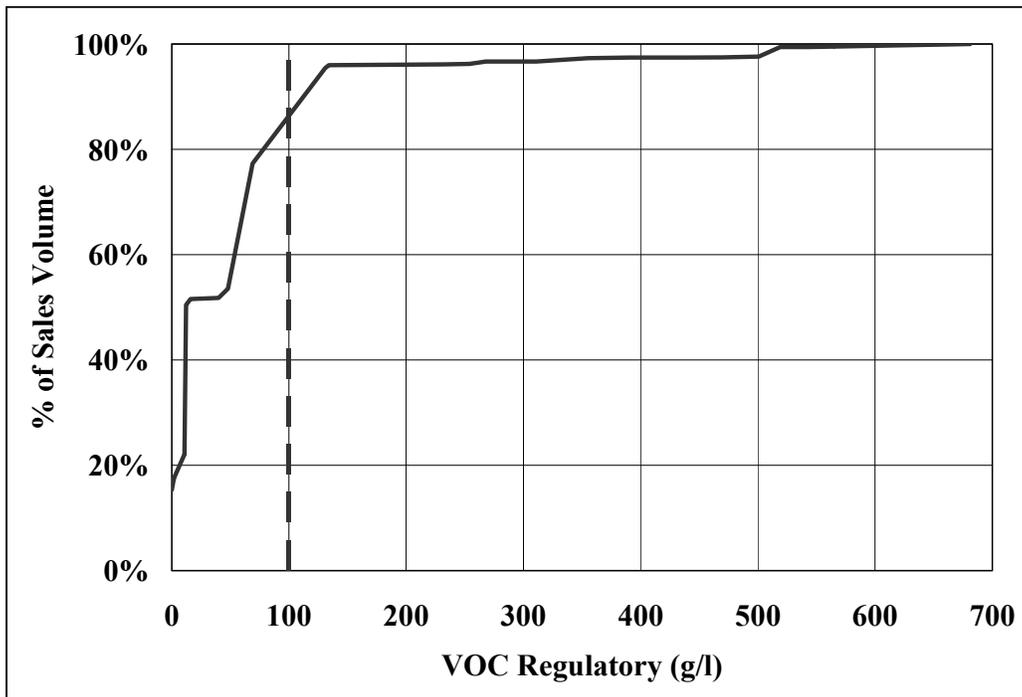


Figure 7-27
Pre-Treatment Wash Primer

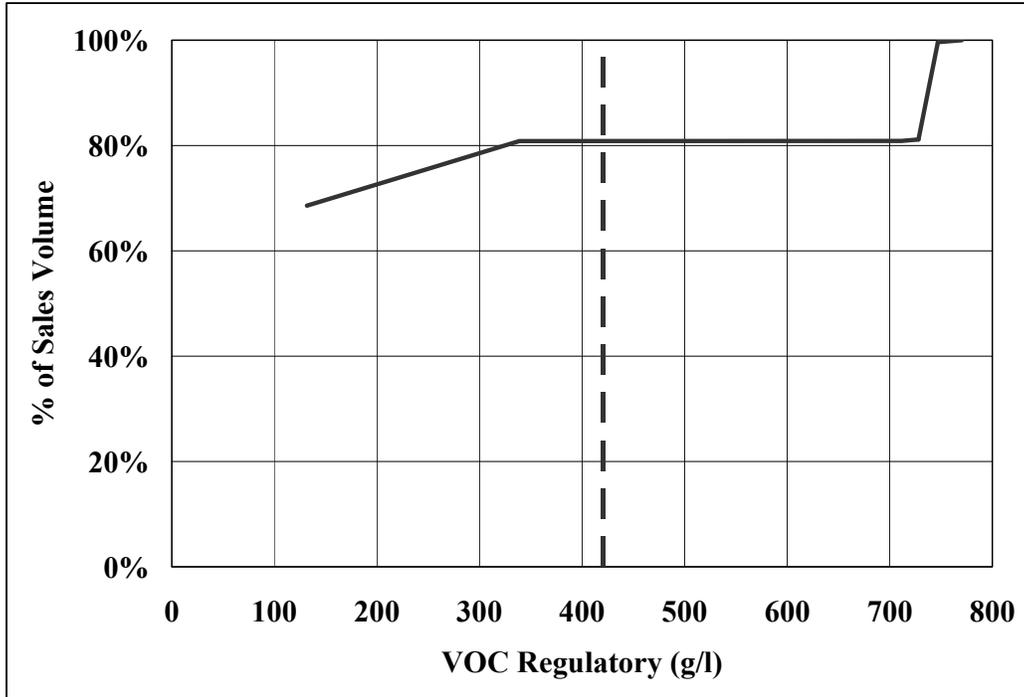


Figure 7-28
Primer, Sealer and Undercoater

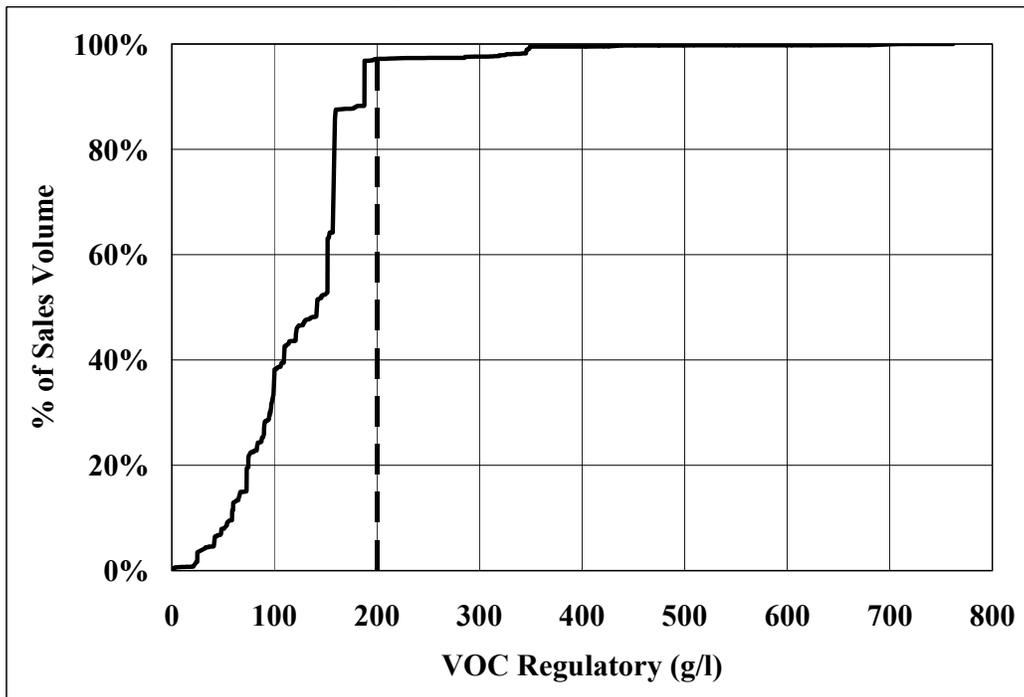


Figure 7-29
Quick Dry Enamel

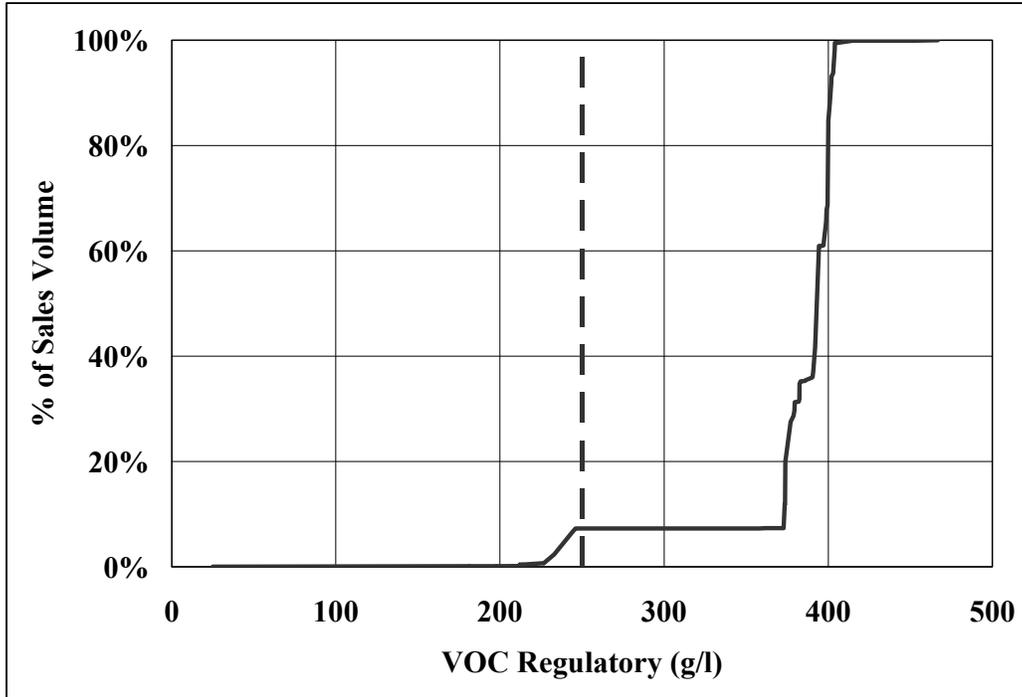


Figure 7-30
Quick Dry Primer, Sealer and Undercoater

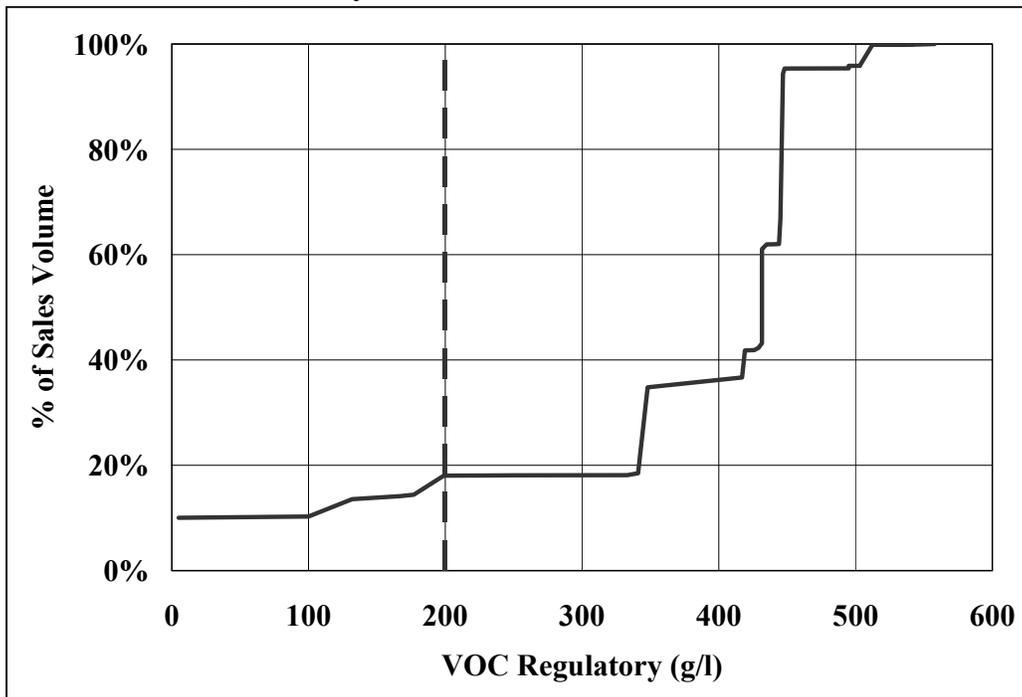


Figure 7-31
Recycled

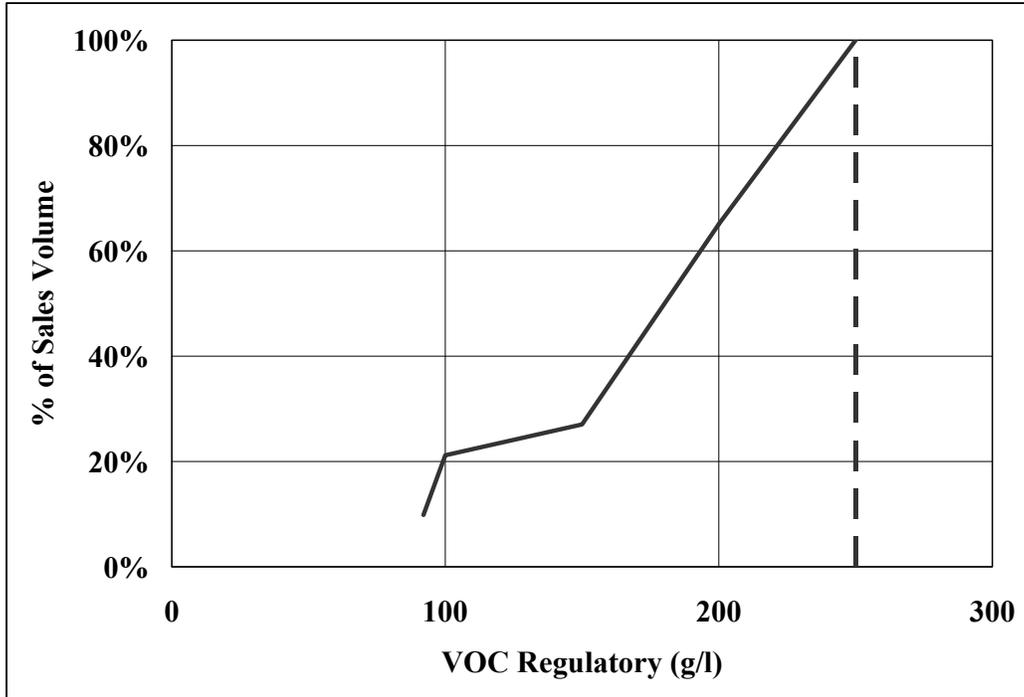


Figure 7-32
Roof

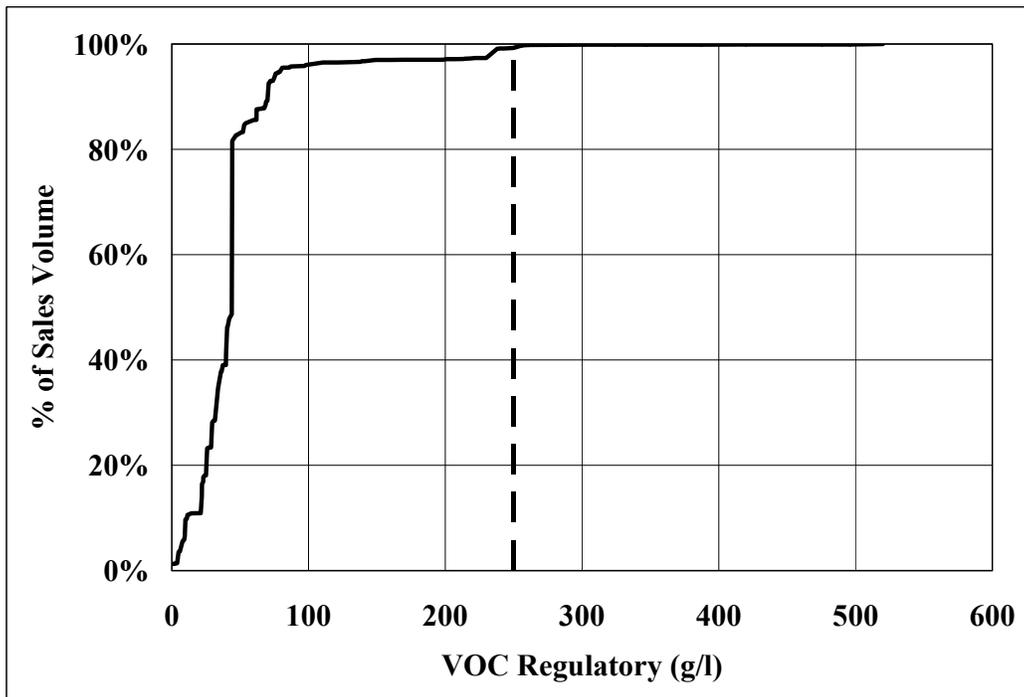


Figure 7-33
Rust Preventative

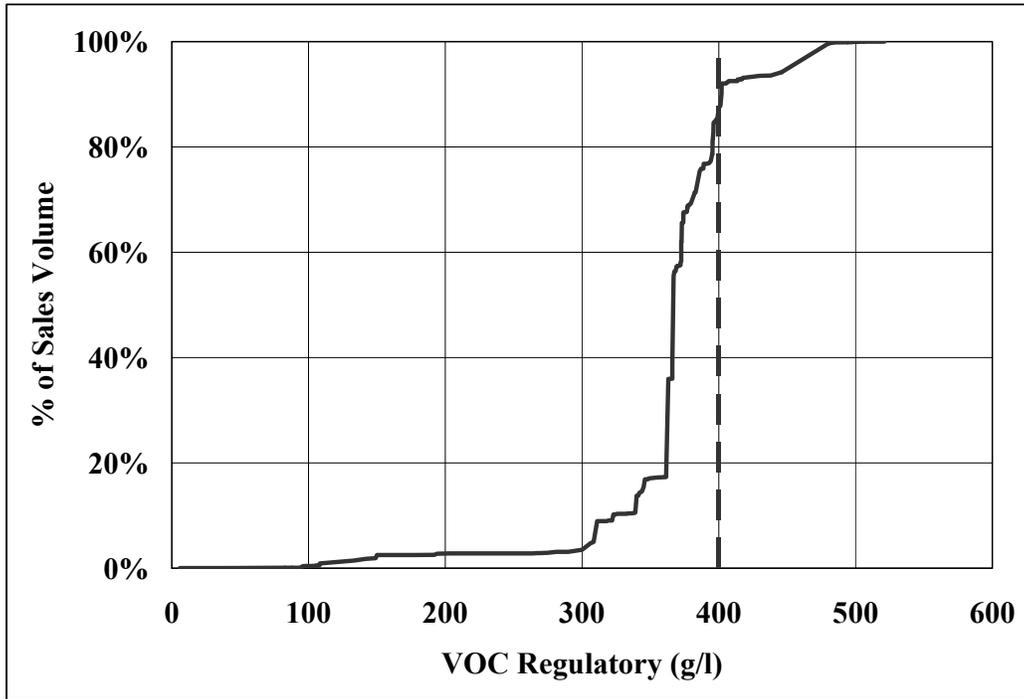


Figure 7-34
Sanding Sealers

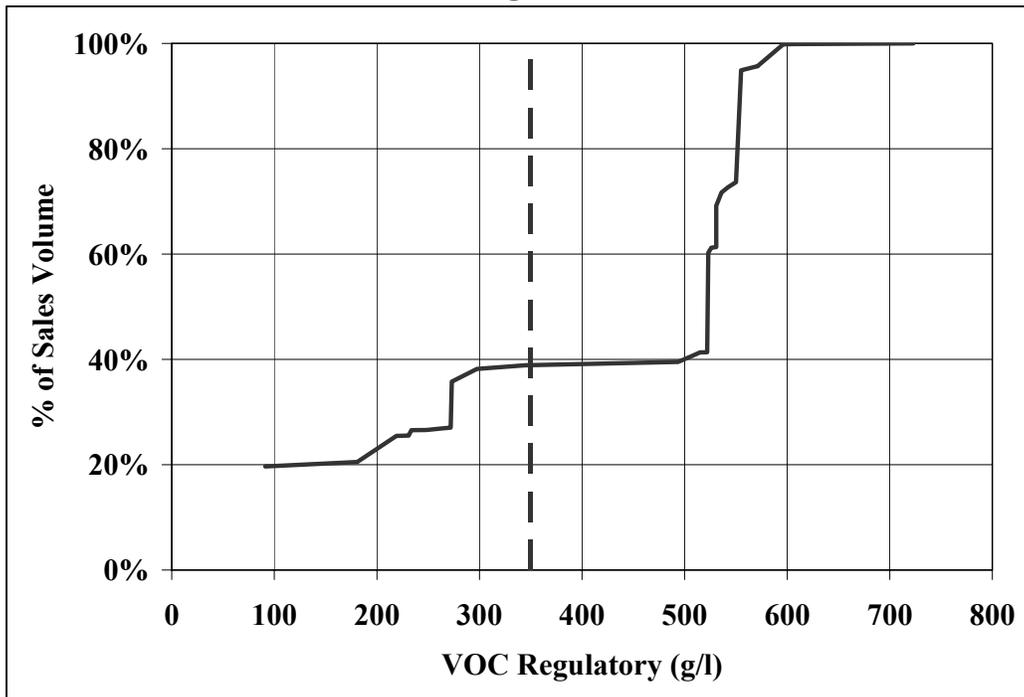
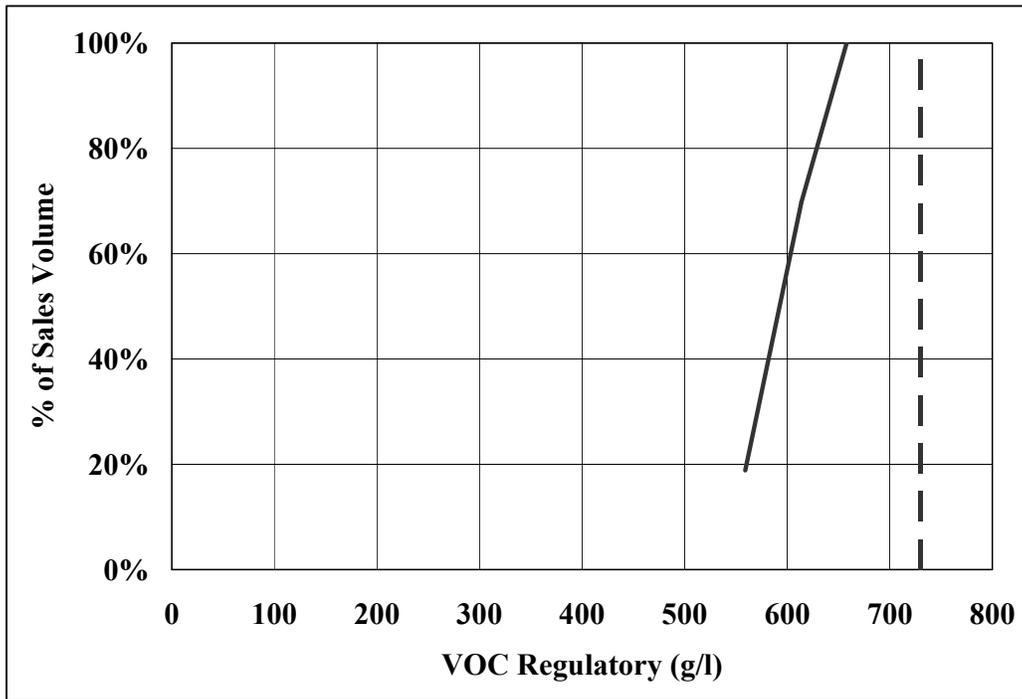


Figure 7-35
Shellacs - Clear



For **Shellacs - Opaque**, 100% of the products sold complied with the VOC Limit of 550 g/l and no figure is provided, due to the small number of products.

Figure 7-36
Specialty Primer, Sealer and Undercoater

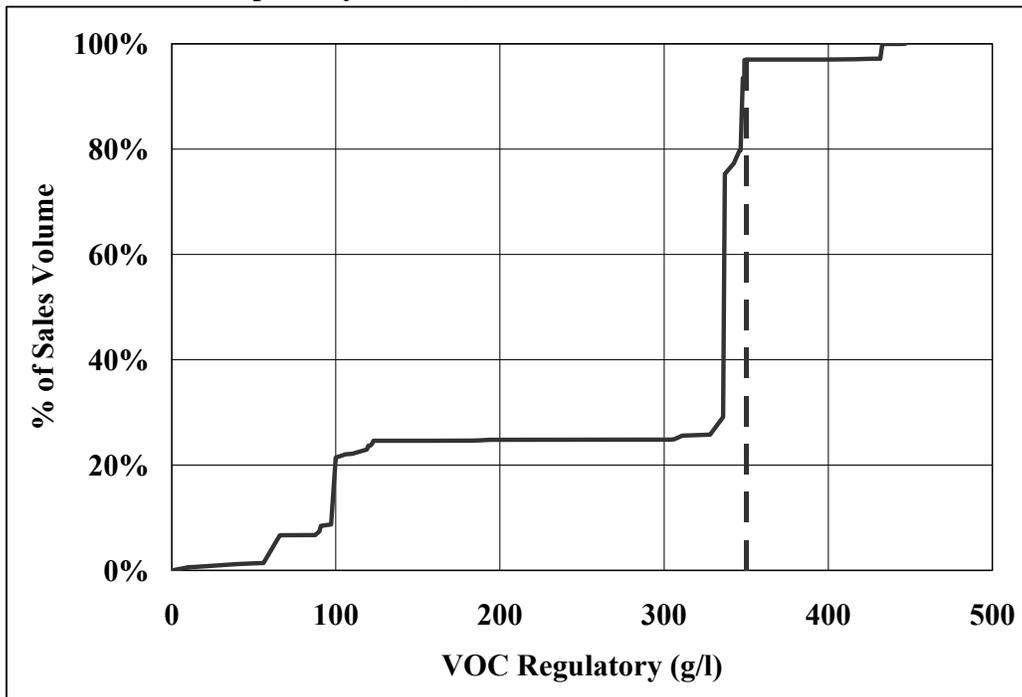


Figure 7-37
Stains – Clear/Semitransparent

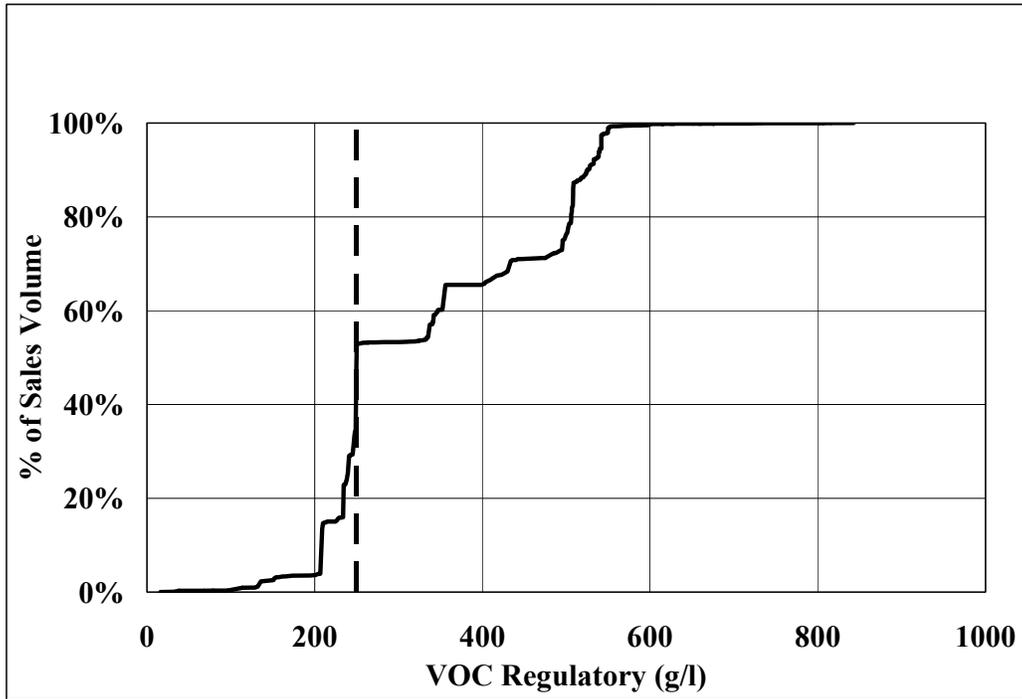


Figure 7-38
Stains - Opaque

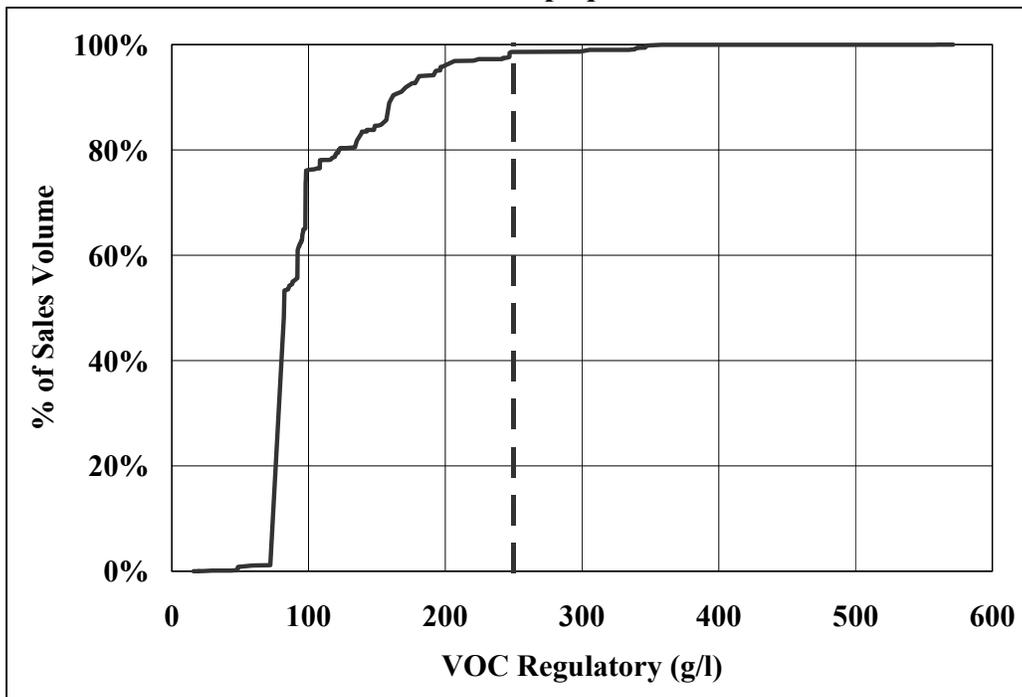


Figure 7-39
Swimming Pool

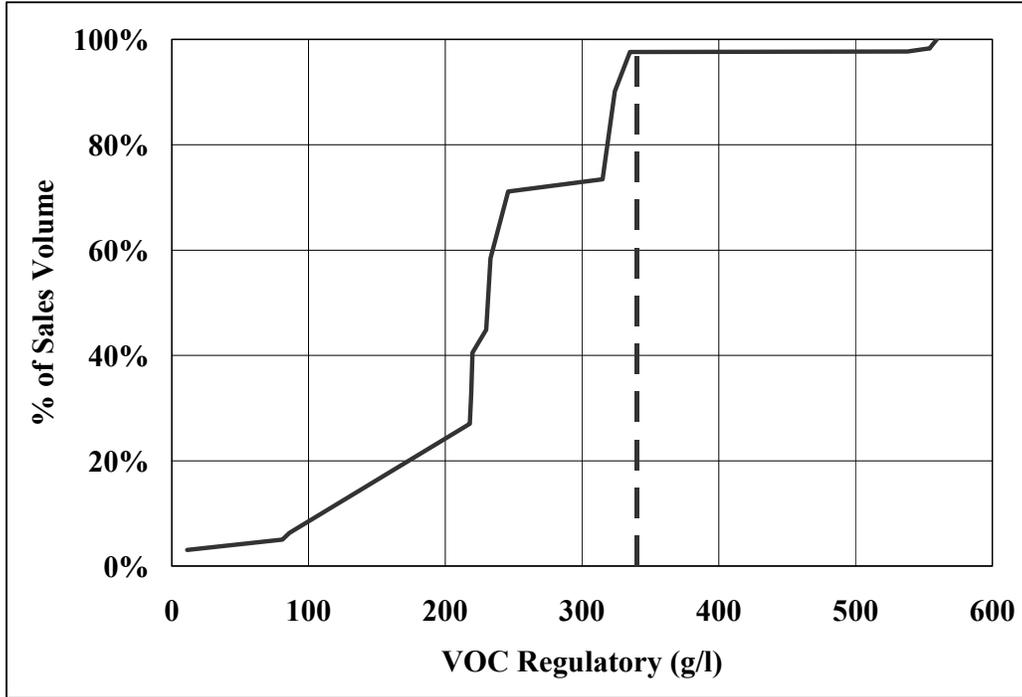


Figure 7-40
Swimming Pool Repair and Maintenance

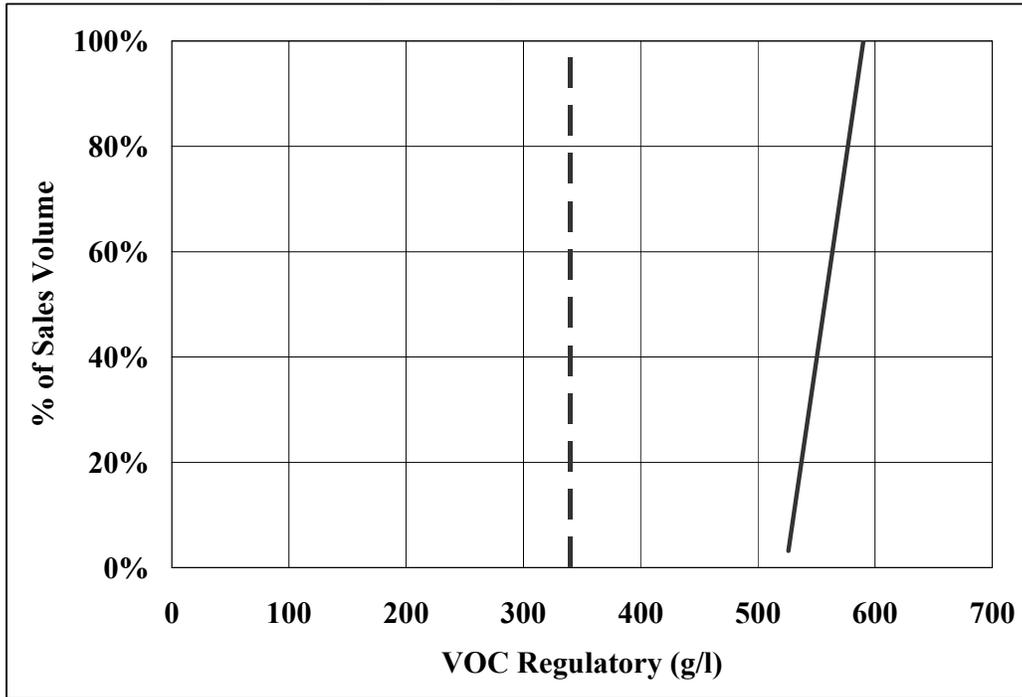


Figure 7-41
Traffic Marking

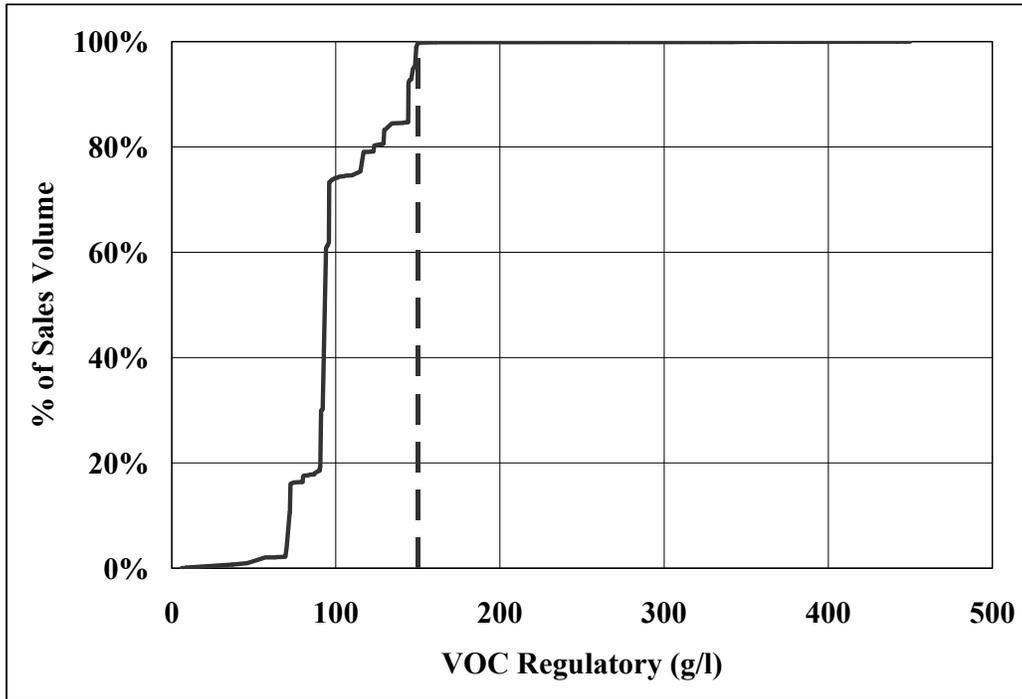


Figure 7-42
Varnishes - Clear

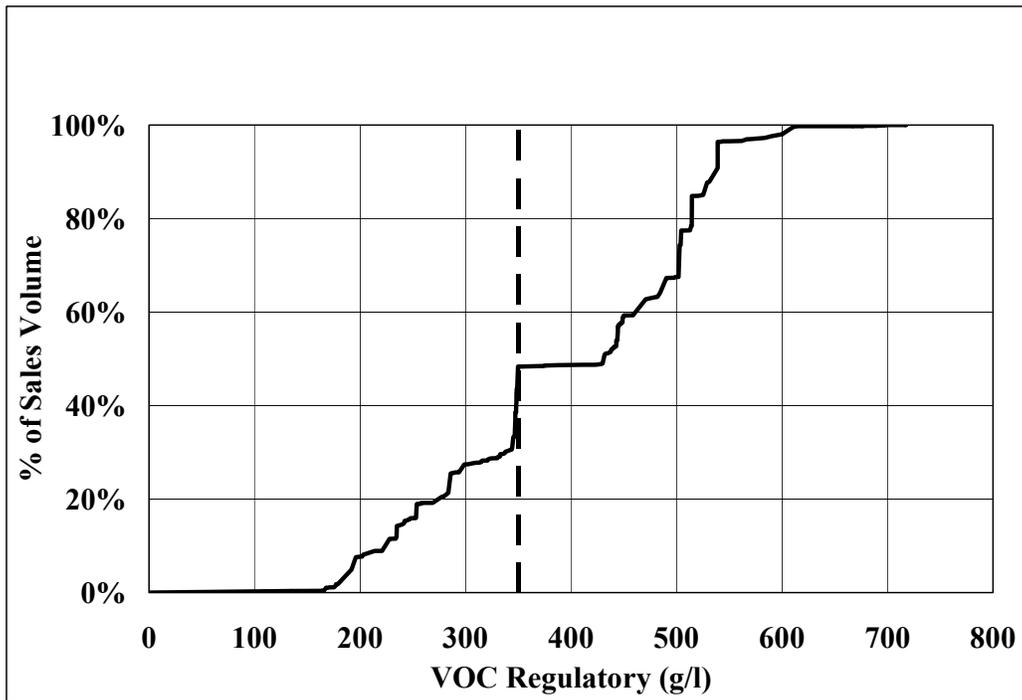


Figure 7-43
Varnishes – Semitransparent

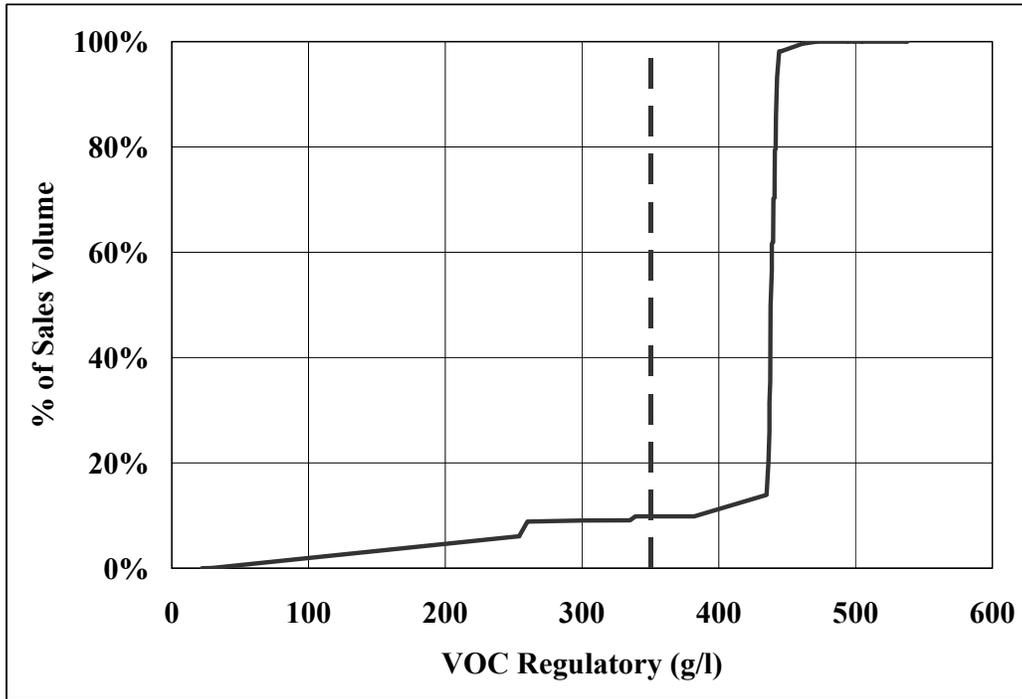


Figure 7-44
Waterproofing Concrete/Masonry Sealers

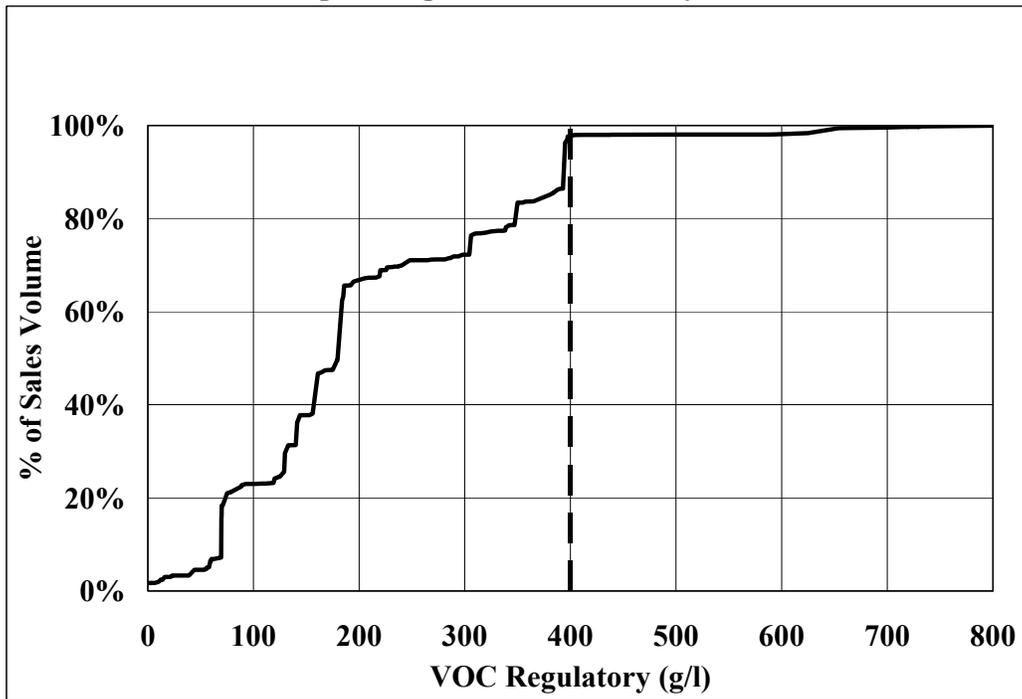


Figure 7-45
Waterproofing Sealers

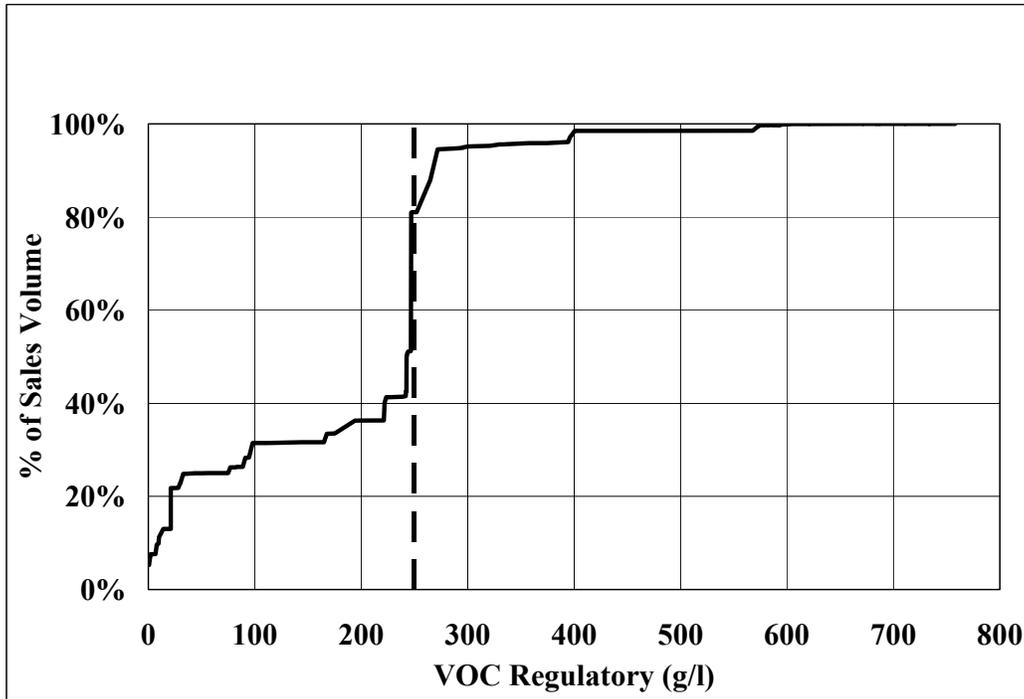
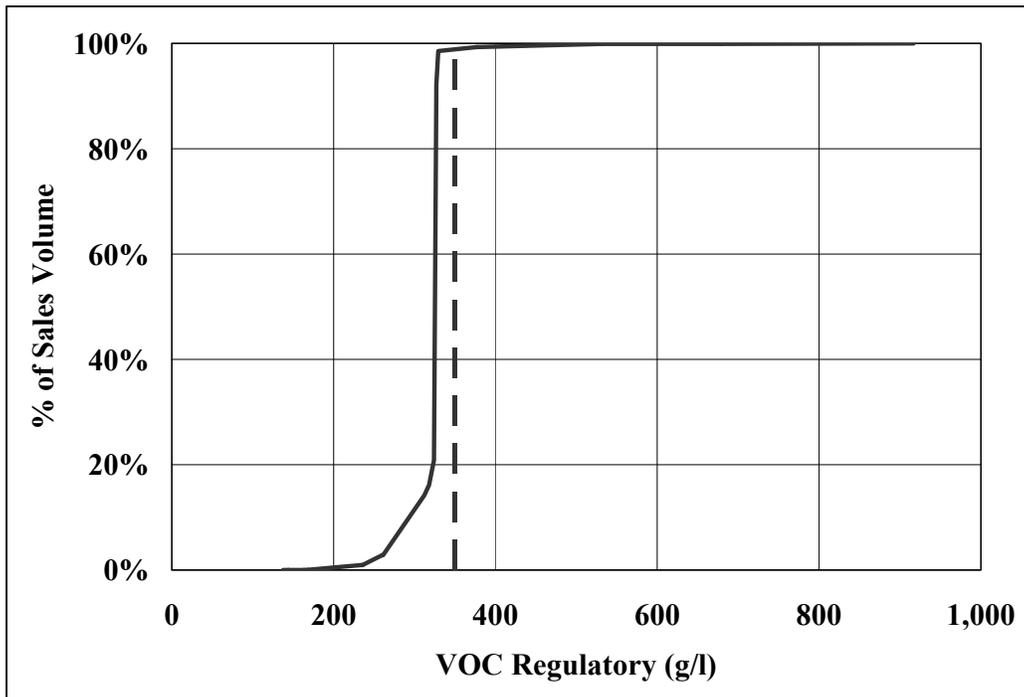


Figure 7-46
Wood Preservatives



Chapter 8 -- Volume Percents, Weight Percents, & Densities

The 2005 survey gathered the following physical parameter data:

- Solids Percent by Weight
- Volatiles Percent by Weight
- Water Percent by Weight
- Exempt Compounds Percent by Weight
- Solids Percent by Volume
- Water Percent by Volume
- Exempt Compounds Percent by Volume
- Coating Density

These data made it possible to verify the reported VOC values that were calculated using the above-listed parameters. Since most survey respondents calculated their VOCs, rather than using Method 24 results, gathering the physical parameter data greatly improved our ability to ensure the quality of the VOC values.

This chapter includes the following data summaries:

Table 8-1: *Sales-Weighted Average Volume Percents (Solids, Water, Exempts)*

Table 8-2: *Sales-Weighted Average Weight Percents (Solids, VOCs, Water, Exempts)*

Table 8-3: *Sales-Weighted Average VOC Regulatory and Weight Percent VOC*

Table 8-4: *Sales-Weighted Average Coating Densities*

Table 8-1 contains the sales-weighted average (SWA) values for volume percentages in each category, broken down by solvent-borne (SB) and water-borne (WB) coatings and both combined. Table 8-2 contains SWA weight percentages, while Table 8-3 includes weight percent VOCs with the corresponding VOC Regulatory values. Table 8-4 provides SWA coating densities. Sales of small containers were included when calculating the SWA values in these tables. A small number of manufacturers reported sales data, but provided no data on certain physical parameters (e.g. volume percentages). The sales associated with these null values were not included when calculating the SWA values for these tables. This was done to ensure that the numbers were not artificially lowered by inclusion of null values.

Table 8-1: Sales-Weighted Average Volume Percents (Solids, Water, Exempts)

Coating Category	SWA Volume % Solids			SWA Volume % Water			SWA Volume % Exempt Cmpds.		
	SB	WB	All	SB	WB	All	SB	WB	All
Bituminous Roof	70	48	51	0	52	44	0	0	0
Bituminous Roof Primer	59	35	56	1	58	8	0	0	0
Bond Breakers	11	18	18	0	75	74	0	0	0
Clear Brushing Lacquer	19	NA	19	0	NA	0	0	NA	0
Concrete Curing Compounds	25	16	17	35	77	75	2	0	0
Driveway Sealer	50	46	46	0	56	56	0	0	0
Dry Fog	46	38	42	12	54	33	0	0	0
Faux Finishing	45	29	29	0	62	61	0	0	0
Fire Resistive	75	46	57	0	54	32	0	0	0
Fire Retardant - Clear	39	NA	39	0	NA	0	0	NA	0
Fire Retardant - Opaque	55	34	54	0	65	5	0	0	0
Flat	61	36	36	0	61	61	1	0	0
Floor	82	35	41	0	50	44	0	0	0
Form Release Compounds	71	15	65	0	81	10	0	0	0
Graphic Arts	50	39	48	0	49	9	0	0	0
High Temperature	43	NA	43	0	NA	0	13	NA	13
Industrial Maintenance	72	39	61	0	52	17	1	0	0
Lacquers	22	33	25	0	60	16	43	0	32
Low Solids	NA	9	9	NA	85	85	NA	0	0
Magnesite Cement	33	NA	33	0	NA	0	32	NA	32
Mastic Texture	53	52	52	23	45	42	0	0	0
Metallic Pigmented	60	36	55	0	63	13	0	0	0
Multi-Color	16	23	23	44	75	74	0	0	0
Nonflat - High Gloss	53	35	35	0	60	58	0	0	0
Nonflat - Low Gloss	48	35	35	0	59	59	0	0	0
Nonflat - Medium Gloss	54	34	34	0	62	62	0	0	0
Other	35	19	19	1	81	79	3	0	0
Pre-Treatment Wash Primer	8	22	19	0	73	59	1	0	0
Primer, Sealer, and Undercoater	51	33	34	0	62	61	3	0	0
Quick Dry Enamel	50	33	49	0	53	4	0	3	0
Quick Dry Primer, Sealer, and Undercoater	43	36	42	0	64	9	2	0	2

Table 8-1: Sales-Weighted Average Volume Percents (Solids, Water, Exempts)

Coating Category	SWA Volume % Solids			SWA Volume % Water			SWA Volume % Exempt Cmpds.		
	SB	WB	All	SB	WB	All	SB	WB	All
Recycled	NA	41	41	NA	56	56	NA	0	0
Roof	70	44	45	0	54	53	1	0	0
Rust Preventative	52	33	51	0	57	2	0	0	0
Sanding Sealers	31	28	30	0	67	26	0	0	0
Shellacs - Clear	21	NA	21	5	NA	5	0	NA	0
Shellacs - Opaque	31	NA	31	6	NA	6	0	NA	0
Specialty Primer, Sealer, and Undercoater	55	40	51	0	55	14	0	0	0
Stains - Clear/Semitransparent	52	19	45	3	73	18	1	0	1
Stains - Opaque	58	35	36	1	61	60	4	0	0
Swimming Pool	68	39	57	0	48	18	0	1	0
Swimming Pool Repair and Maintenance	35	NA	35	0	NA	0	0	NA	0
Traffic Marking	55	57	57	0	34	29	34	0	5
Varnishes - Clear	42	28	38	0	62	18	0	0	0
Varnishes - Semitransparent	43	30	42	0	58	5	0	0	0
Waterproofing Concrete/Masonry Sealers	63	34	50	0	60	27	12	0	6
Waterproofing Sealers	58	25	31	0	69	57	6	0	1
Wood Preservatives	60	11	57	0	86	5	0	0	0

Notes:

1. NA = Not Applicable. No sales were reported for this category.
2. Sales of small containers were included when calculating the SWA values in this table.

Notes on specific coating categories:

Bond Breakers: More than 25% of the sales volume for Bond Breakers could qualify as “Low Solids” (i.e., has one pound or less of solids per gallon coating), but it was reported under Bond Breakers. Therefore, the sales-weighted average Volume % Solids is low.

Concrete Curing Compounds: The sales-weighted average Volume % Water seems high for solvent-borne Concrete Curing Compounds. The highest sales volume of solvent-borne Concrete Curing Compounds is attributable to a product that contains a fairly high weight percentage of water and a smaller weight percentage of organic solvent. In many cases, coatings that have a volatile content that is more than 50% water would be classified as water-borne. However, another criterion is the type of cleanup solvent that is used. For solvent-borne Concrete Curing Compounds, the high-volume product is cleaned up with mineral spirits. Therefore, it can be classified as a solvent-borne coating, regardless of the high water content.

Mastic Texture: The sales-weighted average Volume % Water seems high for solvent-borne Mastic Texture coatings. The highest sales volumes of solvent-borne Mastic Texture coatings are attributable to a family of products that contain a fairly high weight

percentage of water and a smaller weight percentage of organic solvent. In many cases, coatings that have a volatile content that is more than 50% water would be classified as water-borne. However, another criterion is the type of cleanup solvent that is used. For solvent-borne Mastic Texture coatings, most of the products clean up with mineral spirits. Therefore, they can be classified as solvent-borne coatings, regardless of the high water content.

Multi-Color: The sales-weighted average Volume % Water seems high for solvent-borne Multi-Color coatings. The highest sales volume of solvent-borne Multi-Color coatings is attributable to a product that contains a fairly high weight percentage of water and a smaller weight percentage of organic solvent. In many cases, coatings that have a volatile content that is more than 50% water would be classified as water-borne. However, another criterion is the type of cleanup solvent that is used. For solvent-borne Multi-Color coatings, the high-volume product is cleaned up with lacquer thinner. Therefore, it can be classified as a solvent-borne coating, regardless of the high water content.

Pre-Treatment Wash Primer: A significant portion of the Pre-Treatment Wash Primers has less than two pounds of solids per gallon of coating. Therefore, the sales-weighted average Volume % Solids is relatively low.

Stains – Clear/Semitransparent: More than half of the sales volume for solvent-borne Stains – Clear/Semitransparent contains more than 50% volume solids. Therefore, the sales-weighted average Volume % Solids is relatively high.

Wood Preservatives: More than 25% of the sales volume for water-borne Wood Preservatives could qualify as “Low Solids” (i.e., has one pound or less of solids per gallon coating), but it was reported under Wood Preservatives. Therefore, the sales-weighted average Volume % Solids is low.

Table 8-2: Sales-Weighted Average Weight Percents (Solids, VOCs, Water, Exempts)

Coating Category	SWA Weight % Solids			SWA Weight % VOC			SWA Weight % Water			SWA Weight % Exempt Cmpds.		
	SB	WB	All	SB	WB	All	SB	WB	All	SB	WB	All
Bituminous Roof	76	51	55	23	0	4	0	48	41	0	0	0
Bituminous Roof Primer	61	36	58	38	7	34	1	57	8	0	0	0
Bond Breakers	15	16	16	86	8	8	0	76	76	0	0	0
Clear Brushing Lacquer	26	NA	26	74	NA	74	0	NA	0	0	NA	0
Concrete Curing Compounds	40	18	19	23	4	5	34	78	76	2	0	0
Driveway Sealer	50	57	57	50	0	0	0	43	43	0	0	0
Dry Fog	69	56	63	22	4	13	8	40	24	0	0	0
Faux Finishing	65	37	37	35	9	9	0	55	54	0	0	0
Fire Resistive	78	46	58	22	1	9	0	54	32	0	0	0
Fire Retardant - Clear	49	NA	49	51	NA	51	0	NA	0	0	NA	0
Fire Retardant - Opaque	74	50	73	26	1	24	0	49	4	0	0	0

Table 8-2: Sales-Weighted Average Weight Percents (Solids, VOCs, Water, Exempts)

Coating Category	SWA Weight % Solids			SWA Weight % VOC			SWA Weight % Water			SWA Weight % Exempt Cmpds.		
	SB	WB	All	SB	WB	All	SB	WB	All	SB	WB	All
Flat	73	53	53	26	2	2	0	45	45	1	0	0
Floor	86	47	51	13	12	12	0	42	37	0	0	0
Form Release Compounds	72	15	65	27	3	25	0	82	10	0	0	0
Graphic Arts	72	47	67	28	9	25	0	43	8	0	0	0
High Temperature	58	NA	58	30	NA	30	0	NA	0	12	NA	12
Industrial Maintenance	82	48	70	18	7	14	0	45	15	1	0	0
Lacquers	29	45	34	34	6	26	0	50	14	36	0	26
Low Solids	NA	9	9	NA	6	6	NA	85	85	NA	0	0
Magnesite Cement	48	NA	48	29	NA	29	0	NA	0	24	NA	24
Mastic Texture	62	64	64	17	3	5	21	33	31	0	0	0
Metallic Pigmented	65	41	60	35	3	28	0	56	11	0	0	0
Multi-Color	26	30	30	30	2	3	43	68	67	0	0	0
Nonflat - High Gloss	68	46	47	32	5	6	0	49	48	0	0	0
Nonflat - Low Gloss	68	49	49	32	4	4	0	47	47	0	0	0
Nonflat - Medium Gloss	71	45	45	29	4	4	0	51	51	0	0	0
Other	51	27	28	45	1	2	1	72	70	3	0	0
Pre-Treatment Wash Primer	16	31	28	83	4	19	0	64	52	1	0	0
Primer, Sealer, and Undercoater	68	48	48	30	4	4	0	49	47	2	0	0
Quick Dry Enamel	66	47	65	34	9	32	0	43	3	0	1	0
Quick Dry Primer, Sealer, and Undercoater	65	51	63	34	2	29	0	48	7	2	0	2
Recycled	NA	54	54	NA	3	3	NA	44	44	NA	0	0
Roof	79	56	57	19	1	2	0	43	41	1	0	0
Rust Preventative	69	44	68	31	8	30	0	48	2	0	0	0
Sanding Sealers	38	30	35	62	5	40	0	65	25	0	0	0
Shellacs - Clear	28	NA	28	66	NA	66	7	NA	7	0	NA	0
Shellacs - Opaque	52	NA	52	43	NA	43	5	NA	5	0	NA	0
Specialty Primer, Sealer, and Undercoater	76	52	70	24	3	19	0	44	11	0	0	0
Stains - Clear/Semitransparent	57	22	49	40	7	33	1	71	16	2	0	2
Stains - Opaque	74	47	47	22	3	4	1	50	49	4	0	0
Swimming Pool	81	54	71	19	8	15	0	36	14	0	1	0
Swimming Pool Repair and Maintenance	53	NA	53	47	NA	47	0	NA	0	0	NA	0
Traffic Marking	76	73	74	6	4	4	0	23	19	18	0	3
Varnishes - Clear	48	30	43	52	9	39	0	61	17	0	0	0
Varnishes - Semitransparent	52	38	51	48	10	45	0	53	5	0	0	0

Table 8-2: Sales-Weighted Average Weight Percents (Solids, VOCs, Water, Exempts)

Coating Category	SWA Weight % Solids			SWA Weight % VOC			SWA Weight % Water			SWA Weight % Exempt Cmpds.		
	SB	WB	All	SB	WB	All	SB	WB	All	SB	WB	All
Waterproofing Concrete/Masonry Sealers	68	44	57	20	4	13	0	52	23	12	0	7
Waterproofing Sealers	65	28	34	29	5	10	0	67	55	6	0	1
Wood Preservatives	62	10	60	38	4	36	0	85	5	0	0	0

Notes:

1. NA = Not Applicable. No sales were reported for this category.
2. Sales of small containers were included when calculating the SWA values in this table.

Table 8-3: Sales-Weighted Average VOC Regulatory and Weight Percent VOC

Coating Category	SWA VOC Regulatory (g/l)			SWA Weight % VOC		
	SB	WB	All	SB	WB	All
Bituminous Roof	240	3	38	23	0	4
Bituminous Roof Primer	346	167	324	38	7	34
Bond Breakers	717	300	302	86	8	8
Clear Brushing Lacquer	666	NA	666	74	NA	74
Concrete Curing Compounds	344	156	166	23	4	5
Driveway Sealer	439	2	3	50	0	0
Dry Fog	361	107	233	22	4	13
Faux Finishing	392	255	257	35	9	9
Fire Resistive	283	18	124	22	1	9
Fire Retardant - Clear	531	NA	531	51	NA	51
Fire Retardant - Opaque	347	44	325	26	1	24
Flat	333	82	82	26	2	2
Floor	153	98	104	13	12	12
Form Release Compounds	243	158	233	27	3	25
Graphic Arts	383	211	350	28	9	25
High Temperature	407	NA	407	30	NA	30
Industrial Maintenance	227	173	209	18	7	14
Lacquers	571	151	456	34	6	26
Low Solids	NA	60	60	NA	6	6
Magnesite Cement	446	NA	446	29	NA	29
Mastic Texture	248	72	98	17	3	5
Metallic Pigmented	359	77	301	35	3	28
Multi-Color	551	94	103	30	2	3
Nonflat - High Gloss	363	150	156	32	5	6
Nonflat - Low Gloss	402	118	118	32	4	4
Nonflat - Medium Gloss	372	127	128	29	4	4
Other	520	51	65	45	1	2
Pre-Treatment Wash Primer	747	163	275	83	4	19
Primer, Sealer, and Undercoater	370	122	128	30	4	4
Quick Dry Enamel	390	237	380	34	9	32

Table 8-3: Sales-Weighted Average VOC Regulatory and Weight Percent VOC

Coating Category	SWA VOC Regulatory (g/l)			SWA Weight % VOC		
	SB	WB	All	SB	WB	All
Quick Dry Primer, Sealer, and Undercoater	414	45	361	34	2	29
Recycled	NA	193	193	NA	3	3
Roof	239	40	46	19	1	2
Rust Preventative	376	201	369	31	8	30
Sanding Sealers	542	174	399	62	5	40
Shellacs - Clear	617	NA	617	66	NA	66
Shellacs - Opaque	521	NA	521	43	NA	43
Specialty Primer, Sealer, and Undercoater	343	91	281	24	3	19
Stains - Clear/Semitransparent	366	240	338	40	7	33
Stains - Opaque	300	102	106	22	3	4
Swimming Pool	267	222	250	19	8	15
Swimming Pool Repair and Maintenance	588	NA	588	47	NA	47
Traffic Marking	147	93	101	6	4	4
Varnishes - Clear	458	243	397	52	9	39
Varnishes - Semitransparent	439	256	422	48	10	45
Waterproofing Concrete/Masonry Sealers	247	155	206	20	4	13
Waterproofing Sealers	281	164	187	29	5	10
Wood Preservatives	327	292	325	38	4	36

Table 8-4: Sales-Weighted Average Coating Densities

Coating Category	SWA Density (lb/gal)		
	SB	WB	All
Bituminous Roof	8.6	8.8	8.8
Bituminous Roof Primer	7.6	8.5	7.7
Bond Breakers	7.0	8.2	8.2
Clear Brushing Lacquer	7.5	NA	7.5
Concrete Curing Compounds	8.3	8.5	8.5
Driveway Sealer	7.3	10.9	10.9
Dry Fog	12.0	11.6	11.8
Faux Finishing	9.3	9.6	9.6
Fire Resistive	10.9	8.8	9.6
Fire Retardant - Clear	8.6	NA	8.6
Fire Retardant - Opaque	11.4	11.2	11.4
Flat	10.7	11.4	11.4
Floor	9.4	10.2	10.1
Form Release Compounds	7.4	8.2	7.5
Graphic Arts	11.5	9.4	11.1
High Temperature	10.5	NA	10.5
Industrial Maintenance	10.9	9.9	10.5
Lacquers	7.8	10.4	8.5

Table 8-4: Sales-Weighted Average Coating Densities

Coating Category	SWA Density (lb/gal)		
	SB	WB	All
Low Solids	NA	8.3	8.3
Magnesite Cement	8.9	NA	8.9
Mastic Texture	9.4	11.6	11.3
Metallic Pigmented	16.9	9.8	15.5
Multi-Color	8.5	9.2	9.2
Nonflat - High Gloss	9.4	10.2	10.2
Nonflat - Low Gloss	10.7	10.6	10.6
Nonflat - Medium Gloss	10.9	10.1	10.1
Other	9.5	9.9	9.9
Pre-Treatment Wash Primer	7.5	9.4	9.0
Primer, Sealer, and Undercoater	10.9	10.7	10.7
Quick Dry Enamel	9.7	10.3	9.8
Quick Dry Primer, Sealer, and Undercoater	10.4	11.3	10.6
Recycled	NA	11.4	11.4
Roof	10.1	11.0	11.0
Rust Preventative	10.2	9.7	10.2
Sanding Sealers	7.3	8.6	7.8
Shellacs - Clear	7.4	NA	7.4
Shellacs - Opaque	9.8	NA	9.8
Specialty Primer, Sealer, and Undercoater	11.8	10.6	11.5
Stains - Clear/Semitransparent	7.6	8.5	7.8
Stains - Opaque	11.1	10.2	10.2
Swimming Pool	11.9	11.2	11.7
Swimming Pool Repair and Maintenance	10.4	NA	10.4
Traffic Marking	12.7	13.5	13.4
Varnishes - Clear	7.5	8.6	7.8
Varnishes - Semitransparent	7.6	9.3	7.8
Waterproofing Concrete/Masonry Sealers	9.3	10.4	9.8
Waterproofing Sealers	8.8	8.7	8.7
Wood Preservatives	7.3	8.4	7.3

Notes:

1. NA = Not Applicable. No sales were reported for this category.
2. Sales of small containers were included when calculating the SWA values in this table.

Chapter 9 -- Substrate and Resin Information

The 2005 survey gathered data on the types of substrates that were recommended for a particular product. In addition to substrate information, the survey collected data on resin types and number of components (i.e., single-component or multi-component) for all of the coating categories.

This chapter includes the following data summaries:

Table 9-1: *Volume Percent for Each Substrate Type*

Table 9-2: *Volume Percent for Each Resin Type*

Table 9-3: *Single-Component/Multi-Component Breakdown*

Table 9-1 illustrates the types of substrates that were reported for various coating categories, based on the VOC Regulatory value. For example, in a given 50 gram/liter VOC range, most of the reported coatings in a category may be suitable for all substrates. However, in another 50 gram/liter VOC range for that same category, the recommended substrates may be limited to a few main areas. Differences in formulation between lower-VOC and higher-VOC coatings may result in differences for the recommended substrates.

Table 9-1 lists the volume percent of coating that is appropriate for a given substrate, based on VOC ranges in each category. In some cases, survey respondents reported multiple substrate codes for a single product. In those cases, the sales volume was equally divided between the reported substrates. For example, if a product had two substrates (e.g., Drywall and Wood) and the product sales quantity was 100 gallons, we attributed 50 gallons to the Drywall and 50 gallons to the Wood, for the purpose of calculating a substrate volume percentage. If a survey respondent reported a Substrate Code of “0” or left the Substrate Code field blank, it was assumed that the substrate was not specified. The reason for unspecified substrates is either because the product was suitable for all substrates or the manufacturer did not provide a complete data submittal.

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/ Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
Bituminous Roof																			
000-050 g/l	0%	0%	92%	4%					0%		2%	0%		2%				0%	0%
051-100 g/l	10%		90%																
101-150 g/l				100%															
201-250 g/l	0%		32%	20%							20%			15%				5%	8%
251-300 g/l			93%	0%					6%		1%			0%					0%
301-350 g/l			50%	50%															
351-400 g/l			25%	25%							25%								25%
451-500 g/l			100%																
Bituminous Roof Primer																			
000-050 g/l											100%								
151-200 g/l			50%	0%							50%								
201-250 g/l				50%							50%								
301-350 g/l			36%	17%					31%		17%								0%
351-400 g/l				33%							33%			33%					
401-450 g/l			21%	26%							40%							14%	
451-500 g/l	99%																	1%	
Bond Breakers																			
051-100 g/l									100%										
151-200 g/l									100%										
251-300 g/l									100%										
351-400 g/l									100%										
651-700 g/l									100%										
700 g/l +									100%										
Clear Brushing Lacquer																			
601-650 g/l											50%							50%	
651-700 g/l														100%					
Concrete Curing Compounds																			
000-050 g/l				37%					63%										
051-100 g/l				7%					93%										
101-150 g/l				100%															

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/ Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
151-200 g/l				83%	0%	0%	0%	0%	16%										
201-250 g/l				13%					87%										
251-300 g/l				79%					21%										
301-350 g/l				24%					76%										
401-450 g/l									100%										
501-550 g/l									100%										
551-600 g/l				100%															
601-650 g/l				100%															
651-700 g/l				100%															
Driveway Sealer																			
000-050 g/l			100%																
051-100 g/l			100%																
101-150 g/l									100%										
351-400 g/l			100%																
401-450 g/l			100%																
451-500 g/l			100%																
Dry Fog																			
000-050 g/l	20%	15%		25%						7%	7%			25%					
051-100 g/l		1%		23%					2%	24%	24%			26%					
101-150 g/l				33%						5%	33%			28%					
151-200 g/l				25%						25%	25%			25%					
201-250 g/l		50%							50%										
251-300 g/l	100%																		
301-350 g/l				26%						26%	24%			24%					
351-400 g/l	6%			19%					0%	34%	20%			20%			0%	0%	
Faux Finishing																			
000-050 g/l				9%						79%	3%			7%				2%	
051-100 g/l	0%			26%						47%				2%				26%	
101-150 g/l				17%						83%								0%	
151-200 g/l	100%																		
201-250 g/l	5%			3%						72%	1%			15%				3%	
251-300 g/l	100%																		

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/ Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
301-350 g/l	74%			8%						13%				0%			4%	0%	
351-400 g/l				20%						20%	20%						20%	20%	
401-450 g/l				19%						21%	19%						21%	19%	
501-550 g/l	94%													6%					
551-600 g/l	100%																		
651-700 g/l										10%				10%					81%
700 g/l +										100%									
Fire Resistive																			
000-050 g/l	100%												0%						
051-100 g/l													100%						
301-350 g/l													100%						
351-400 g/l													100%						
Fire Retardant - Clear																			
451-500 g/l															100%				
501-550 g/l														83%	17%				
601-650 g/l															100%				
Fire Retardant - Opaque																			
000-050 g/l		92%		1%							1%			6%				1%	
051-100 g/l	100%																		
101-150 g/l		100%																	
301-350 g/l	100%																		
Flat																			
000-050 g/l	16%	2%	2%	32%		0%		0%	1%	20%	5%		1%	12%			6%		3%
051-100 g/l	21%	6%	0%	20%	1%	0%	0%	0%	1%	19%	6%	0%	0%	21%	0%	0%	4%	0%	1%
101-150 g/l	80%	2%	1%	6%	0%	0%		0%	0%	4%	2%		0%	3%	0%	0%	1%	0%	0%
151-200 g/l	44%	0%		16%	1%	1%		1%		17%	0%			14%	1%		3%		0%
201-250 g/l				33%						34%		0%		33%					
301-350 g/l	6%		31%						31%		32%			1%					
401-450 g/l				1%	1%		1%		1%	1%				89%	0%				6%
451-500 g/l										1%	49%	1%		49%	1%				1%

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/ Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
Floor																			
000-050 g/l			0%	26%					32%		2%			9%				25%	5%
051-100 g/l	28%		2%	53%					6%	0%	1%	0%		8%	2%		0%		
101-150 g/l	4%	0%	20%	24%					7%	0%	1%	0%		24%	6%		6%	6%	
151-200 g/l	57%		0%	23%					5%		3%			9%				3%	
201-250 g/l	0%		0%	3%					9%		4%			1%	5%			4%	74%
251-300 g/l	0%			100%															
301-350 g/l				98%							1%			1%					
351-400 g/l			17%	25%					10%		8%		4%	24%	5%		8%		
451-500 g/l															50%		50%		
651-700 g/l				100%															
Form Release Compounds																			
000-050 g/l											5%			95%					0%
051-100 g/l											45%			47%				8%	
101-150 g/l											4%	46%		4%				46%	
151-200 g/l														100%					
201-250 g/l											5%			74%	21%				
401-450 g/l									52%		17%			31%					
601-650 g/l														100%					
700 g/l +					20%	20%	20%	20%	20%										
Graphic Arts																			
151-200 g/l				33%							33%			33%					
201-250 g/l				33%							33%			33%					
251-300 g/l				9%							9%			9%	73%				
301-350 g/l				33%							33%			33%					
351-400 g/l				25%					24%	25%				25%					
401-450 g/l				29%					12%	29%				29%					
High Temperature																			
251-300 g/l									42%		16%	42%							
301-350 g/l									4%		91%	5%							
351-400 g/l											99%	1%							
401-450 g/l											96%	4%							

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
451-500 g/l				0%							100%								0%
501-550 g/l											28%	72%							
551-600 g/l												100%							
601-650 g/l											82%	18%							
Industrial Maintenance																			
000-050 g/l	11%	0%	0%	27%		1%			15%	1%	15%	12%	3%	2%			0%	3%	11%
051-100 g/l	14%	1%	4%	28%		5%			5%	1%	13%	3%	1%	6%	0%	0%	0%	1%	17%
101-150 g/l	6%			25%	0%	1%	0%	0%	4%	5%	41%	10%	0%	5%			0%		3%
151-200 g/l	9%			24%	0%	0%	0%	0%	9%	5%	32%	4%	0%	14%			0%	1%	1%
201-250 g/l	0%			19%		0%			11%	8%	40%	12%	0%	10%			0%	1%	
251-300 g/l	3%		0%	22%		0%			2%	4%	47%	17%	0%	4%					0%
301-350 g/l	2%	0%		13%	0%	0%	0%	0%	1%	2%	58%	19%	0%	4%			0%	0%	0%
351-400 g/l	9%		0%	21%	0%				1%	10%	35%	8%	1%	9%	0%		8%		
401-450 g/l	23%		0%	8%					0%	2%	37%	18%		8%			0%	0%	3%
451-500 g/l		1%		9%					0%	2%	78%	0%		6%					5%
501-550 g/l				7%							19%	74%		0%					
551-600 g/l			0%								7%		91%						2%
601-650 g/l											0%								100%
700 g/l +				5%							55%		40%						
Lacquers																			
000-050 g/l														100%					
051-100 g/l														100%					
101-150 g/l				50%										50%					
151-200 g/l														100%					
201-250 g/l	1%			8%							8%			81%	1%		0%		
251-300 g/l	4%													61%	18%	16%	1%	1%	
301-350 g/l															54%		17%	29%	
351-400 g/l														14%			86%		
401-450 g/l											100%								
451-500 g/l															50%		50%		
501-550 g/l														80%	18%		2%		
551-600 g/l														31%	69%				

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
601-650 g/l	2%			6%						6%			6%	73%	7%				
651-700 g/l														98%	1%	0%	1%		
700 g/l +															99%		1%		
Low Solids																			
000-050 g/l				9%	10%	4%	4%	5%	10%					10%	24%	24%	1%		0%
051-100 g/l				16%											42%	42%			
101-150 g/l	100%																		
Magnesite Cement																			
401-450 g/l																			100%
Mastic Texture																			
000-050 g/l	6%		1%	93%										1%					
051-100 g/l	1%		1%	74%	1%	2%	1%	1%	1%	5%					1%	1%	6%	6%	
101-150 g/l				14%	14%	14%	14%	14%	14%	14%							0%	0%	
151-200 g/l				14%	14%	14%	14%	14%	14%	14%									
201-250 g/l				14%	14%	14%	14%	14%	14%	14%									
351-400 g/l								100%											
551-600 g/l				100%															
Metallic Pigmented																			
000-050 g/l			48%								2%	50%							
051-100 g/l		0%		0%						0%	99%								0%
101-150 g/l			96%	1%						1%	1%	0%		1%					
151-200 g/l	16%	15%		23%						15%	17%			0%					15%
201-250 g/l				9%						2%	7%	73%		2%					7%
251-300 g/l				2%					4%		19%	21%	26%	27%					
301-350 g/l	2%					0%					64%	34%							
351-400 g/l			85%								15%	0%							
401-450 g/l	0%		94%	4%						0%	1%	0%		0%				0%	0%
451-500 g/l	3%		78%	2%						0%	5%	11%		1%					1%
501-550 g/l			6%	0%							3%	32%		0%					59%
551-600 g/l		1%								1%	95%	2%		1%					
651-700 g/l	100%																		
700 g/l +											100%								

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
Multi-Color																			
051-100 g/l				25%					25%		25%							25%	
201-250 g/l	100%																		
451-500 g/l	100%																		
551-600 g/l				25%					25%		25%							25%	
Nonflat - High Gloss																			
000-050 g/l				17%					49%	17%								17%	
051-100 g/l	27%	18%		6%						24%	1%			23%				1%	1%
101-150 g/l	9%			6%				3%		40%	3%		0%	38%				2%	0%
151-200 g/l	67%			9%						8%	9%	0%		8%				0%	0%
201-250 g/l	76%			6%						7%	4%			4%	1%			3%	0%
251-300 g/l				22%					4%	22%	22%		1%	24%	4%				
301-350 g/l	2%			13%	8%	7%	6%	7%		12%	19%	0%		13%				13%	
351-400 g/l	0%			9%	7%	7%	7%	7%		5%	19%	1%	1%	14%				12%	10%
401-450 g/l				26%						24%	24%			24%				1%	
451-500 g/l				9%						4%	9%			9%					70%
601-650 g/l											100%								
Nonflat - Low Gloss																			
000-050 g/l	2%	1%		20%		0%				25%	13%			35%				3%	
051-100 g/l	1%	0%		27%	1%	0%			1%	20%	13%	0%	0%	27%				8%	0%
101-150 g/l	43%	4%	0%	10%	0%	0%		0%	0%	23%	4%	0%	1%	10%	0%	0%		5%	0%
151-200 g/l		8%	0%	14%						33%	3%	8%		25%				8%	2%
201-250 g/l	4%			20%	1%	1%		1%		0%	24%	0%		5%	20%			22%	
251-300 g/l				1%						1%	98%			1%					
301-350 g/l				12%						12%				64%				12%	
351-400 g/l				30%						13%	27%			5%				25%	
401-450 g/l				32%						32%	4%			32%					
501-550 g/l	100%											0%						0%	
601-650 g/l												50%						50%	

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
Nonflat - Medium Gloss																			
000-050 g/l	1%	0%		20%				0%		24%	10%	0%		37%			3%		4%
051-100 g/l	26%	0%		23%	0%	0%	0%	0%	0%	21%	3%	0%		7%			17%		0%
101-150 g/l	44%	2%	0%	11%		0%		1%	0%	20%	1%	0%	0%	11%	0%	0%	7%	0%	0%
151-200 g/l	11%	0%		26%	0%	0%		0%	0%	27%	12%		0%	23%		0%	0%		0%
201-250 g/l	100%	0%		0%						0%	0%		0%	0%	0%	0%	0%		
251-300 g/l				24%	1%	1%		1%		26%	24%						24%		
301-350 g/l	25%			19%						8%	17%			19%					11%
351-400 g/l	20%			23%						11%	16%	0%	0%	16%	1%		7%	5%	
401-450 g/l				27%						5%	26%	5%	5%	27%			5%		
451-500 g/l				32%						32%	3%			32%					
Other																			
000-050 g/l	3%	59%		33%	5%														
051-100 g/l																			100%
101-150 g/l		97%																	3%
201-250 g/l				100%															
251-300 g/l															11%	11%			78%
301-350 g/l																			100%
351-400 g/l																			100%
401-450 g/l											100%								
451-500 g/l																			100%
501-550 g/l																			100%
551-600 g/l																			100%
651-700 g/l																			100%
Pre-Treatment Wash Primer																			
101-150 g/l											100%								
301-350 g/l												100%							
700 g/l +											0%		98%	1%					

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/ Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
Primer, Sealer, and Undercoater																			
000-050 g/l	22%	7%	0%	11%		0%		0%	0%	41%	0%	0%	4%	13%			0%	0%	1%
051-100 g/l	1%	0%	0%	20%	0%	2%	0%	2%	4%	50%	2%		3%	13%	1%		2%	0%	0%
101-150 g/l	54%	0%		17%	0%	0%	0%	0%	1%	20%	1%	0%	0%	5%	1%	0%	0%	0%	0%
151-200 g/l	71%	1%	0%	2%	0%	0%	0%	0%	0%	15%	0%	0%	0%	12%	0%	0%		0%	
201-250 g/l				23%	10%	10%		10%		0%	3%		0%	23%	10%	10%		0%	0%
251-300 g/l	1%			11%					5%	63%	6%		4%	10%					
301-350 g/l	0%	1%		13%	4%	4%	4%	4%	0%	3%	8%	0%	0%	56%	3%	0%		0%	0%
351-400 g/l		0%		3%	2%	2%	2%	2%	2%	14%	39%	5%		28%	0%		0%	0%	
401-450 g/l									4%	47%	2%			47%					
451-500 g/l				29%					27%	7%	2%			7%			27%		
501-550 g/l									43%					43%	14%				
551-600 g/l	4%			96%															
601-650 g/l				25%						25%	25%			25%	0%				
651-700 g/l														6%	94%				
700 g/l +				0%								0%			100%		0%		
Quick Dry Enamel																			
000-050 g/l		100%																	
151-200 g/l				25%						25%	25%			25%					
201-250 g/l	85%			6%						1%	1%			6%					
301-350 g/l														100%					
351-400 g/l	12%			23%						11%	14%			18%	8%		14%		
401-450 g/l				25%						8%	35%			33%					
451-500 g/l				25%						25%	25%			25%					
Quick Dry Primer, Sealer, and Undercoater																			
000-050 g/l										50%				50%					
101-150 g/l		19%		20%						20%	19%		2%	20%					
151-200 g/l				31%						24%	20%			24%					
201-250 g/l	70%													30%					
301-350 g/l	3%									49%				49%					
401-450 g/l	10%			0%						24%		3%		55%	8%		0%		0%
451-500 g/l				23%						23%	23%			23%	9%				

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/ Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
501-550 g/l									0%					0%	100%				
551-600 g/l															100%				
Recycled																			
051-100 g/l	53%			12%						12%	12%			12%					
101-150 g/l	100%																		
151-200 g/l	100%																		
201-250 g/l	100%																		
Roof																			
000-050 g/l	6%		50%	3%					0%		1%	0%	16%	0%	1%			0%	23%
051-100 g/l	16%		37%	4%		0%			3%		0%	1%	7%	0%	0%	0%	0%	1%	31%
101-150 g/l	59%		24%	1%							1%			1%					14%
151-200 g/l			31%	31%							7%		12%						18%
201-250 g/l			0%	4%		0%			26%		21%			20%					29%
251-300 g/l			18%	14%							5%								63%
301-350 g/l			15%	4%					20%		20%							20%	20%
351-400 g/l																			100%
401-450 g/l				50%										50%					
451-500 g/l			62%										38%						
501-550 g/l											100%								
Rust Preventative																			
000-050 g/l												100%							
051-100 g/l									7%		88%	5%							
101-150 g/l	45%										52%	2%	1%						
151-200 g/l	1%										79%		20%						
201-250 g/l											100%								
251-300 g/l											8%	80%		12%					
301-350 g/l				4%							68%	24%	0%	4%					
351-400 g/l				1%	0%	0%	0%	0%	0%	0%	88%	8%	1%	1%	0%		0%	0%	
401-450 g/l				1%							73%	24%	1%	1%					0%
451-500 g/l				0%							0%	99%		0%					
501-550 g/l				33%							34%			33%					

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
Sanding Sealers																			
051-100 g/l															50%		50%		
151-200 g/l															50%		50%		
201-250 g/l														99%	1%				
251-300 g/l														3%	59%	38%			
301-350 g/l															33%	33%	33%		
451-500 g/l														100%					
501-550 g/l														11%	85%	1%	3%		
551-600 g/l														19%	81%				
601-650 g/l														100%					
700 g/l +														100%					
Shellacs - Clear																			
551-600 g/l														100%					
601-650 g/l														100%					
651-700 g/l														50%	50%				
Shellacs - Opaque																			
501-550 g/l										50%					50%				
Specialty Primer, Sealer, and Undercoater																			
000-050 g/l	45%			27%						27%									
051-100 g/l	26%	1%		19%		0%				18%	3%		16%	19%				0%	
101-150 g/l	23%			8%						53%	0%		8%	9%					
151-200 g/l	1%			15%						37%				37%	1%	1%		6%	
301-350 g/l	26%	0%		2%	0%	0%	0%	0%	0%	35%	0%		0%	36%	0%	0%	0%	0%	
351-400 g/l										39%				61%					
401-450 g/l		0%		1%						49%	1%			49%					
Stains - Clear/Semitransparent																			
000-050 g/l														71%	29%				
051-100 g/l														100%					
101-150 g/l				28%										72%					
151-200 g/l				10%										2%	45%	42%			
201-250 g/l	20%			4%						0%	0%			23%	22%	21%	11%		
251-300 g/l														23%	31%	30%	17%		

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
301-350 g/l														56%	36%	6%	2%	0%	
351-400 g/l														0%	50%	50%			
401-450 g/l				2%										21%	50%	14%	14%		
451-500 g/l														18%	82%				
501-550 g/l														29%	69%	1%	0%	0%	
551-600 g/l														12%	87%	1%			
601-650 g/l															22%	78%			
651-700 g/l														74%	26%				
700 g/l +														62%	38%				
Stains - Opaque																			
000-050 g/l				91%									3%	6%					
051-100 g/l	62%			11%							10%		0%	17%					
101-150 g/l				2%							0%			95%	1%	1%	1%	1%	
151-200 g/l				6%										57%	13%	20%	3%		
201-250 g/l				8%						12%				71%	6%	4%			
251-300 g/l										6%					47%	47%			
301-350 g/l														83%	6%	6%	2%	3%	
351-400 g/l															50%	50%			
501-550 g/l				100%															
551-600 g/l				100%															
Swimming Pool																			
000-050 g/l									100%										
051-100 g/l				100%															
201-250 g/l				100%															
301-350 g/l				100%															
501-550 g/l				100%															
551-600 g/l				27%	73%														
Swimming Pool Repair and Maintenance																			
501-550 g/l				100%															
551-600 g/l				100%															

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
Traffic Marking																			
000-050 g/l			76%	5%	3%				8%	8%									
051-100 g/l	0%		19%	17%	63%	0%			2%									0%	
101-150 g/l			26%	22%	48%				4%										
151-200 g/l					100%														
251-300 g/l			50%						50%										
301-350 g/l			50%	19%					31%										
351-400 g/l			50%	40%					10%										
401-450 g/l			100%	0%															
Varnishes - Clear																			
000-050 g/l	100%																		
101-150 g/l				5%						5%	5%			5%	40%		40%		
151-200 g/l	4%									0%				59%	18%	0%	17%		
201-250 g/l														39%	40%	5%	16%	0%	
251-300 g/l	7%													63%	16%	3%	10%	1%	
301-350 g/l											0%			34%	65%	1%	1%	0%	
351-400 g/l											2%			2%	20%		55%	21%	
401-450 g/l														39%	55%	5%	0%	0%	
451-500 g/l														12%	67%	10%	10%		
501-550 g/l														4%	84%	0%	12%		
551-600 g/l														27%	58%	12%	1%	1%	
601-650 g/l														9%				91%	
651-700 g/l														100%					
700 g/l +														100%					
Varnishes - Semitransparent																			
000-050 g/l															50%	50%			
251-300 g/l				33%										64%	2%				
301-350 g/l															100%				
351-400 g/l															70%	30%			
401-450 g/l														0%	100%				
451-500 g/l														100%	0%				
501-550 g/l														72%	28%				

Table 9-1: Volume Percent for Each Substrate Type

	Substrate Not Specified	Acoustic Materials	Asphalt	Concrete, Stone, Masonry, etc.						Tilt Up/Poured In Place	Drywall	Metal			Wood				Other
				All Concrete	Brick	Cinder Block	Stone	Stucco	All Metal			Ferrous	Non-Ferrous	All Wood	No Paint, Smooth	No Paint, Rough	Painted	Plywood	
Waterproofing Concrete/Masonry Sealers																			
000-050 g/l			14%	75%	0%				6%		0%	2%		1%	2%				
051-100 g/l		0%		86%		0%		0%	8%			1%		1%	1%			3%	
101-150 g/l				98%	0%	0%	0%	0%	1%										
151-200 g/l				78%	0%	0%	0%	0%	0%						22%				
201-250 g/l				56%	0%	0%	0%	0%	0%					34%				8%	
251-300 g/l				64%	1%	1%	1%		34%										
301-350 g/l				54%	15%	1%	1%	1%	1%	1%	14%			14%					
351-400 g/l				85%	3%	3%	3%	3%	3%	0%									
401-450 g/l				26%	12%	12%	12%	12%	12%	12%									
501-550 g/l				100%															
551-600 g/l				100%															
601-650 g/l				100%															
651-700 g/l				100%															
700 g/l +				100%	0%			0%	0%										
Waterproofing Sealers																			
000-050 g/l	1%			80%	0%	8%			9%		0%			1%	0%	0%			
051-100 g/l	0%			98%	0%	0%	0%	0%		0%	0%			1%	0%	0%	0%	0%	
101-150 g/l				100%															
151-200 g/l				60%	2%				0%					38%					
201-250 g/l				3%	0%	0%	0%	0%	3%					68%	13%	13%		1%	
251-300 g/l				25%											26%	26%		23%	
301-350 g/l				46%	15%	15%	10%		15%										
351-400 g/l				84%										8%	8%				
401-450 g/l				100%					0%										
451-500 g/l															25%	25%	25%	25%	
551-600 g/l				28%										6%	33%	33%			
601-650 g/l				35%											33%	33%			
651-700 g/l				55%					45%										
700 g/l +				100%															
Wood Preservatives																			
101-150 g/l															50%	50%			

Table 9-1: Volume Percent for Each Substrate Type

	<i>Substrate Not Specified</i>	<i>Acoustic Materials</i>	<i>Asphalt</i>	Concrete, Stone, Masonry, etc.						<i>Tilt Up/Poured In Place</i>	<i>Drywall</i>	Metal			Wood				<i>Other</i>
				<i>All Concrete</i>	<i>Brick</i>	<i>Cinder Block</i>	<i>Stone</i>	<i>Stucco</i>	<i>All Metal</i>			<i>Ferrous</i>	<i>Non-Ferrous</i>	<i>All Wood</i>	<i>No Paint, Smooth</i>	<i>No Paint, Rough</i>	<i>Painted</i>	<i>Plywood</i>	
151-200 g/l															50%	50%			
201-250 g/l															50%	50%			
251-300 g/l														100%					
301-350 g/l														14%	37%	49%			
351-400 g/l															50%	50%			
501-550 g/l														100%					
700 g/l +															33%	33%		33%	

Notes:

1. Substrate Not Specified: In some cases, the substrate field was left blank. In other cases, a zero was reported, which was generally the result of automatic spreadsheet formatting for electronic submittals.
2. The “Other” substrate category includes items such as: vinyl siding, foam, thermal insulation, glass, plastic, roofing membranes, and tile. For example, the substrate was reported simply as “roof” for some products in Bituminous Roof, Bituminous Roof Primer, Roof, and Metallic Pigmented (which includes aluminum roof coatings).
3. The data in this table include sales from small containers (1 quart or less).

Table 9-2 lists the volume percent of coating associated with a given resin type, for each applicable VOC range.

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleo-resin	Phenolic	Poly-ester	Poly-vinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Poly-vinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
Bituminous Roof																						
000-050 g/l		2%																		98%		
051-100 g/l																				100%		
101-150 g/l																						
201-250 g/l																						
251-300 g/l	0%																			100%		
301-350 g/l																				100%		
351-400 g/l																				100%		
451-500 g/l																				100%		
Bituminous Roof Primer																						
000-050 g/l																				100%		
151-200 g/l															50%					50%		
201-250 g/l																				100%		
301-350 g/l																				100%		
351-400 g/l																				100%		
401-450 g/l																				100%		
451-500 g/l																				100%		
Bond Breakers																						
051-100 g/l																						100%
151-200 g/l																						100%
251-300 g/l									37%													63%
351-400 g/l																						100%
651-700 g/l																						100%
700 g/l +																						100%
Clear Brushing Lacquer																						
601-650 g/l						100%																
651-700 g/l				33%		33%																33%
Concrete Curing Compounds																						
000-050 g/l			2%									8%		9%								80%
051-100 g/l															0%							100%
101-150 g/l			70%																			30%

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleo-resin	Phenolic	Poly-ester	Poly-vinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Poly-vinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other	
151-200 g/l		65%	1%	15%																		20%	
201-250 g/l			63%	36%					0%													1%	
251-300 g/l		1%	21%																			78%	
301-350 g/l		0%	9%						0%						73%							3%	15%
401-450 g/l				100%																			
501-550 g/l										100%													
551-600 g/l																		100%					
601-650 g/l		6%	85%																			9%	
651-700 g/l																						100%	
Driveway Sealer																							
000-050 g/l												0%			0%				0%	100%			
051-100 g/l	1%	99%																					
101-150 g/l		100%																					
351-400 g/l																					100%		
401-450 g/l																					100%		
451-500 g/l																					100%		
Dry Fog																							
000-050 g/l		15%	14%									15%			6%					50%			
051-100 g/l		34%	38%																	27%			
101-150 g/l		19%	36%																	45%			
151-200 g/l																				100%			
201-250 g/l								100%															
251-300 g/l				100%																			
301-350 g/l				86%																		14%	
351-400 g/l				65%				5%										24%				6%	
Faux Finishing																							
000-050 g/l												28%								6%		66%	
051-100 g/l		0%																		87%		12%	
101-150 g/l		17%																		38%		46%	
151-200 g/l		100%																					
201-250 g/l		51%	3%																	45%			
251-300 g/l		100%																					
301-350 g/l		74%	4%	7%								1%								12%		1%	

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleoresin	Phenolic	Polyester	Polyvinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Polyvinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
351-400 g/l																			100%			
401-450 g/l				100%																		
501-550 g/l		94%		6%																		
551-600 g/l		100%																				
651-700 g/l		81%																	19%			
700 g/l +		100%																				
Fire Resistive																						
000-050 g/l							100%	0%														
051-100 g/l								100%														
301-350 g/l		33%																33%	33%			
351-400 g/l																		100%				
Fire Retardant - Clear																						
451-500 g/l							100%															
501-550 g/l				100%																		
601-650 g/l							100%															
Fire Retardant - Opaque																						
000-050 g/l		5%						0%														94%
051-100 g/l																						100%
101-150 g/l																						100%
301-350 g/l				100%																		
Flat																						
000-050 g/l		20%	10%									26%			0%		2%		40%		1%	1%
051-100 g/l	0%	33%	10%	0%	0%							11%			0%	0%		44%		0%	1%	
101-150 g/l		77%	1%									0%						18%		3%		
151-200 g/l		44%	5%									5%						46%				
201-250 g/l		98%		1%								1%										
301-350 g/l		5%														95%						
401-450 g/l				9%								88%										3%
451-500 g/l				100%																		
Floor																						
000-050 g/l		46%						35%								18%			0%	0%		
051-100 g/l		54%	19%					27%	0%							0%						0%
101-150 g/l		94%	6%					0%								0%						

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleoresin	Phenolic	Polyester	Polyvinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Polyvinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
151-200 g/l		24%	74%					0%								1%						0%
201-250 g/l		4%	10%													86%						0%
251-300 g/l		0%														100%						
301-350 g/l		32%		1%	33%			33%								1%						
351-400 g/l				94%												4%						3%
451-500 g/l																100%						
651-700 g/l							100%															
Form Release Compounds																						
000-050 g/l									8%												30%	62%
051-100 g/l									90%												10%	
101-150 g/l									92%												8%	
151-200 g/l																						100%
201-250 g/l									1%												99%	0%
401-450 g/l																					85%	15%
601-650 g/l																					100%	
700 g/l +	100%																					
Graphic Arts																						
151-200 g/l		100%																				
201-250 g/l		100%																				
251-300 g/l		27%		73%																		
301-350 g/l				100%																		
351-400 g/l				100%																		
401-450 g/l				100%																		
High Temperature																						
251-300 g/l								85%						15%								
301-350 g/l					8%			0%						92%								
351-400 g/l														100%								
401-450 g/l				85%										13%					2%			
451-500 g/l				0%										100%								0%
501-550 g/l		7%		28%										65%								
551-600 g/l		50%												50%								
601-650 g/l				9%										91%								

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleo-resin	Phenolic	Poly-ester	Poly-vinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Poly-vinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
Industrial Maintenance																						
000-050 g/l	0%	4%	1%		7%			50%		0%	0%		0%	2%	0%	22%			1%	3%		10%
051-100 g/l	0%	21%	3%	1%	8%			22%				17%		0%		15%			1%	8%	0%	5%
101-150 g/l	0%	49%	2%	0%	2%			36%				1%				7%			1%			0%
151-200 g/l	0%	37%	4%	1%	1%			27%			0%					29%						1%
201-250 g/l	7%	25%	9%	9%	0%			26%	0%	0%	0%			0%	0%	23%				1%		1%
251-300 g/l	1%	6%	4%	10%	0%		0%	51%	1%	0%	0%			0%		24%						1%
301-350 g/l	2%	4%	0%	64%	0%			18%	0%	0%	0%			0%		10%				0%	0%	1%
351-400 g/l	1%	1%	0%	66%	2%			8%	0%	2%	1%			0%		11%		0%		8%		0%
401-450 g/l	0%	1%	0%	70%	1%		0%	10%		0%				1%	3%	9%		2%		0%	2%	0%
451-500 g/l				76%	0%			10%		2%					7%	2%				1%		2%
501-550 g/l				74%	0%		1%	5%		1%						20%						
551-600 g/l				2%			2%	91%						3%						0%		2%
601-650 g/l					0%		100%															
700 g/l +	8%				25%		1%	25%							40%	0%						1%
Lacquers																						
000-050 g/l		100%																				
051-100 g/l		81%																		19%		
101-150 g/l		50%	50%																			
151-200 g/l		75%				25%																
201-250 g/l		72%	27%													1%						
251-300 g/l		43%	2%	32%		0%										23%						
301-350 g/l		14%	36%			4%										47%						
351-400 g/l		14%	43%													43%						
401-450 g/l				100%																		
451-500 g/l																100%						
501-550 g/l		4%		5%		77%					2%						3%					9%
551-600 g/l						100%																
601-650 g/l		2%		16%		83%																
651-700 g/l				44%		55%					0%											0%
700 g/l +		1%		33%		33%						1%										32%

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleoresin	Phenolic	Polyester	Polyvinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Polyvinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
Low Solids																						
000-050 g/l	0%	3%	7%	57%										16%							16%	
051-100 g/l	56%	0%		5%												39%						
101-150 g/l		50%																	50%			
Magnesite Cement																						
401-450 g/l		100%																				
Mastic Texture																						
000-050 g/l		89%																	10%	1%		0%
051-100 g/l		24%	66%					8%											1%			0%
101-150 g/l		23%	77%																			
151-200 g/l		86%	14%																			
201-250 g/l				100%										0%								
351-400 g/l				100%																		
551-600 g/l			100%																			
Metallic Pigmented																						
000-050 g/l	50%													0%						48%	0%	2%
051-100 g/l			1%					99%														
101-150 g/l	0%		0%												2%	2%				96%		0%
151-200 g/l	6%	16%	37%					4%							0%	0%						37%
201-250 g/l			4%	67%				5%						0%		21%						3%
251-300 g/l	78%		1%		5%			16%						1%								
301-350 g/l	24%	2%						54%						5%		15%						
351-400 g/l	0%	0%	1%		0%			1%								0%				85%		12%
401-450 g/l			0%	0%				0%	1%					0%		0%				99%	0%	0%
451-500 g/l	2%	0%		12%				1%	0%	0%				0%						83%	0%	2%
501-550 g/l				32%			2%		1%											65%		
551-600 g/l				4%	1%									95%								
651-700 g/l			100%																			
700 g/l +		100%																				
Multi-Color																						
051-100 g/l		100%																				
201-250 g/l			99%													1%						
451-500 g/l			100%																			

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleoresin	Phenolic	Polyester	Polyvinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Polyvinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
551-600 g/l				100%																		
Nonflat - High Gloss																						
000-050 g/l				51%				49%														
051-100 g/l		37%	14%	2%								27%							20%			
101-150 g/l		57%	2%	0%															41%			0%
151-200 g/l		97%	3%	0%				0%														
201-250 g/l		14%	85%	1%																		
251-300 g/l		89%		11%																		
301-350 g/l			9%	91%																		0%
351-400 g/l				91%	0%			0%								0%					8%	0%
401-450 g/l				100%																		
451-500 g/l				30%												70%						
601-650 g/l		50%		50%																		
Nonflat - Low Gloss																						
000-050 g/l		46%	4%	4%								2%				1%			38%			6%
051-100 g/l		40%	4%	1%								11%				0%			44%			
101-150 g/l		57%	4%									6%			0%	0%	0%		29%			3%
151-200 g/l		78%																	22%			
201-250 g/l		2%	70%	28%																		
251-300 g/l		3%		97%																		
301-350 g/l				36%																		64%
351-400 g/l				94%												6%						0%
401-450 g/l				100%																		
501-550 g/l		0%						50%											50%			
601-650 g/l		100%																				
Nonflat - Medium Gloss																						
000-050 g/l		47%	7%	1%								1%							36%			8%
051-100 g/l		6%	16%	1%		0%		0%				1%				0%	0%		77%			
101-150 g/l		60%	3%	0%							0%	3%			0%	0%			28%			5%
151-200 g/l		80%	3%									1%			0%	0%			17%			
201-250 g/l		1%	99%	1%												0%						
251-300 g/l		32%	35%									2%							32%			
301-350 g/l				90%																		10%

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleo-resin	Phenolic	Poly-ester	Poly-vinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Poly-vinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
351-400 g/l		0%		100%												0%					0%	
401-450 g/l				100%																		
451-500 g/l				100%																		
Other																						
000-050 g/l		4%	3%																	64%		29%
051-100 g/l												100%										
101-150 g/l			3%												97%							
201-250 g/l								100%														
251-300 g/l			78%																	22%		
301-350 g/l								100%														
351-400 g/l			100%																			
401-450 g/l																						100%
451-500 g/l																100%						
501-550 g/l		99%		1%																		
551-600 g/l																100%						
651-700 g/l		100%																				
Pre-Treatment Wash Primer																						
101-150 g/l		100%																				
301-350 g/l	100%																					
700 g/l +																						100%
Primer, Sealer, and Undercoater																						
000-050 g/l	0%	30%	21%		0%			1%				11%		0%		0%			32%	0%	0%	3%
051-100 g/l	0%	18%	34%	1%	0%			2%				3%			0%	0%			38%		0%	3%
101-150 g/l		42%	21%	1%	0%			0%				15%			0%	0%			18%			1%
151-200 g/l		93%	1%	0%	0%			0%			0%	2%				0%			4%		0%	
201-250 g/l		20%	56%	0%								0%				23%						0%
251-300 g/l		12%	5%	8%				4%								12%			57%		1%	
301-350 g/l		3%	1%	77%				11%		7%						0%			0%		0%	0%
351-400 g/l				88%				12%			1%											
401-450 g/l			11%	82%												2%			4%			
451-500 g/l				18%												82%						
501-550 g/l		43%		57%																		
551-600 g/l			90%	10%																		

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleo-resin	Phenolic	Poly-ester	Poly-vinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Poly-vinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
601-650 g/l		0%		50%						50%												
651-700 g/l										94%										2%	2%	2%
700 g/l +				0%												0%					100%	
Quick Dry Enamel																						
000-050 g/l												100%										
151-200 g/l		100%																				
201-250 g/l		65%	25%	10%																		
301-350 g/l				100%																		
351-400 g/l				100%																		
401-450 g/l				100%																		
451-500 g/l				100%																		
Quick Dry Primer, Sealer, and Undercoater																						
000-050 g/l		100%																				
101-150 g/l		93%	7%																			
151-200 g/l		18%	41%							41%												
201-250 g/l			100%																			
301-350 g/l		0%	100%																			
401-450 g/l	2%		0%	51%						0%					0%	8%		2%				38%
451-500 g/l	9%			45%						45%												
501-550 g/l	1%			0%				0%								99%						
551-600 g/l				50%																		50%
Recycled																						
051-100 g/l		18%	18%																	18%		47%
101-150 g/l	100%																					
151-200 g/l	100%																					
201-250 g/l	100%																					
Roof																						
000-050 g/l		76%	23%		0%									1%		0%				0%		0%
051-100 g/l		56%	16%					0%				1%		4%					16%			6%
101-150 g/l		12%	75%													14%						
151-200 g/l		24%	7%		31%			31%								6%						
201-250 g/l							0%							89%		11%						
251-300 g/l														59%	14%	27%						

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleo-resin	Phenolic	Poly-ester	Poly-vinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Poly-vinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
301-350 g/l																89%				11%		
351-400 g/l																				100%		
401-450 g/l																100%						
451-500 g/l			77%																			23%
501-550 g/l																						100%
Rust Preventative																						
000-050 g/l																				98%		2%
051-100 g/l		16%	84%																			
101-150 g/l		85%	15%																			
151-200 g/l		0%	0%	79%																		20%
201-250 g/l		100%																				
251-300 g/l		2%	1%	98%																		
301-350 g/l		0%		89%				9%		0%						0%						2%
351-400 g/l		3%		90%	5%					0%						0%						2%
401-450 g/l		1%		64%		33%				0%								0%				2%
451-500 g/l				100%																		
501-550 g/l				100%																		0%
Sanding Sealers																						
051-100 g/l		100%																				
151-200 g/l			100%																			
201-250 g/l		99%														1%						
251-300 g/l		24%	76%																			
301-350 g/l		100%																				
451-500 g/l																						
501-550 g/l		7%		5%												57%		6%				25%
551-600 g/l				19%												81%		0%				
601-650 g/l																						100%
700 g/l +																						100%
Shellacs - Clear																						
551-600 g/l													100%									
601-650 g/l													100%									
651-700 g/l													100%									

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleoresin	Phenolic	Polyester	Polyvinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Polyvinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
Shellacs - Opaque																						
501-550 g/l													50%									50%
Specialty Primer, Sealer, and Undercoater																						
000-050 g/l			45%									1%									55%	
051-100 g/l		37%	63%												0%							0%
101-150 g/l		24%	76%																			
151-200 g/l		47%	48%	1%											3%							1%
301-350 g/l			0%	78%														19%				1%
351-400 g/l				22%											78%							
401-450 g/l			2%	93%														4%				1%
Stains - Clear/Semitransparent																						
000-050 g/l				71%					29%			0%										
051-100 g/l			85%	1%								15%										
101-150 g/l		44%		56%																		
151-200 g/l		87%	7%	7%																		
201-250 g/l		25%	0%	34%					0%											0%		39%
251-300 g/l			4%	17%																4%		67%
301-350 g/l		9%	9%	58%																		22%
351-400 g/l		0%	0%	99%						0%								0%				0%
401-450 g/l	0%	38%		42%																		20%
451-500 g/l				18%						2%												80%
501-550 g/l		0%	4%	30%						2%						2%						59%
551-600 g/l				74%					0%	7%	3%											17%
601-650 g/l				100%																		
651-700 g/l				26%												7%						66%
700 g/l +				37%		31%										1%						8%
Stains - Opaque																						
000-050 g/l		93%																				5%
051-100 g/l		84%	0%	0%																		1%
101-150 g/l		91%	2%	2%								1%										14%
151-200 g/l		53%	14%	10%																		4%
201-250 g/l		28%		18%																		21%
251-300 g/l				100%																		39%
																						16%

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleoresin	Phenolic	Polyester	Polyvinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Polyvinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
301-350 g/l				61%																	39%	
351-400 g/l				100%																		
501-550 g/l		100%																				
551-600 g/l		100%																				
Swimming Pool																						
000-050 g/l																100%						
051-100 g/l			38%					62%														
201-250 g/l		20%						80%														
301-350 g/l					14%			86%														
501-550 g/l							100%															
551-600 g/l							100%															
Swimming Pool Repair and Maintenance																						
501-550 g/l															100%							
551-600 g/l							100%															
Traffic Marking																						
000-050 g/l		84%																			6%	10%
051-100 g/l		90%	2%	0%		7%					0%										1%	
101-150 g/l		38%	17%	25%							5%										16%	
151-200 g/l			33%	33%																	33%	
251-300 g/l				100%																		
301-350 g/l				69%			30%														1%	
351-400 g/l		1%		83%			16%															
401-450 g/l				99%																		1%
Varnishes - Clear																						
000-050 g/l								100%														
101-150 g/l		10%														90%						
151-200 g/l		9%		7%												80%			4%			
201-250 g/l		16%	10%	0%					0%							74%						0%
251-300 g/l		1%	4%	4%				36%								52%						3%
301-350 g/l		3%	0%	4%						28%				0%		60%						0%
351-400 g/l		8%								2%	19%					69%						2%
401-450 g/l				20%						10%												0%
451-500 g/l	0%			2%					0%													0%

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleoresin	Phenolic	Polyester	Polyvinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Polyvinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
501-550 g/l	0%			1%	0%											97%					0%	0%
551-600 g/l				3%												45%		26%				27%
601-650 g/l																91%						9%
651-700 g/l																						100%
700 g/l +																						100%
Varnishes - Semitransparent																						
000-050 g/l																						100%
251-300 g/l			50%	17%															17%			17%
301-350 g/l			4%	96%																		
351-400 g/l																59%						41%
401-450 g/l																100%						0%
451-500 g/l				100%												0%						
501-550 g/l				72%												28%						
Waterproofing Concrete/Masonry Sealers																						
000-050 g/l		8%	3%		0%			18%						9%		10%			0%	27%		24%
051-100 g/l		76%	2%		0%			2%						0%	12%	7%						1%
101-150 g/l		7%	19%					0%							0%	72%			1%			
151-200 g/l		17%	30%	2%				0%		0%						51%						0%
201-250 g/l		12%	2%											1%	13%	73%			0%			
251-300 g/l		29%	34%	32%										0%		4%						
301-350 g/l		4%	42%					4%						7%		44%						
351-400 g/l		90%	8%											1%		1%		0%				0%
401-450 g/l			86%							0%				1%		13%						0%
501-550 g/l														100%								
551-600 g/l		55%												45%								
601-650 g/l		100%																				
651-700 g/l		90%	9%																			1%
700 g/l +		60%	11%											4%		25%						
Waterproofing Sealers																						
000-050 g/l		43%	5%		0%			0%					8%	14%		6%				11%		12%
051-100 g/l		79%	9%					0%						1%					11%			
101-150 g/l		52%	1%		18%			18%						9%	1%							
151-200 g/l		1%	30%	38%	0%			0%								31%						

Table 9-2: Volume Percent for Each Resin Type

Range	Resin Not Specified	Acrylic	Acrylic Copolymer	Alkyd	Amines Amides	Cellulosic	Chlorinated Rubber	Epoxy	Oleo-resin	Phenolic	Poly-ester	Poly-vinyl Acetate	Shellac	Silicone Silane Siloxane	Styrene Butadiene	Urethane Polyurethane	Poly-vinyl Chloride	Vinyl Toluene	Vinyl Acrylic Copolymer	Asphalt Bituminous	Oil (e.g., linseed, tung)	Other
201-250 g/l	8%	87%						0%						2%		2%			0%	0%		1%
251-300 g/l	49%	2%		2%												23%			23%			2%
301-350 g/l			22%											78%								
351-400 g/l				16%										19%						65%		
401-450 g/l		100%														0%						
451-500 g/l																						100%
551-600 g/l	87%			1%						0%				11%		0%						1%
601-650 g/l			2%						98%													
651-700 g/l		96%												4%								
700 g/l +														100%								
Wood Preservatives																						
101-150 g/l				100%																		
151-200 g/l				100%																		
201-250 g/l																						100%
251-300 g/l		1%																				99%
301-350 g/l				11%																	87%	2%
351-400 g/l																						100%
501-550 g/l																					100%	
700 g/l +																						100%

Notes:

- The “Other” resin category includes, but is not limited to, the following resin descriptions: hydrocarbon resin; sodium silicate; wax; aldehyde resin; ethylene vinyl acetate; inorganic zinc; and polyurea.
- The data in this table include sales from small containers (1 quart or less).

Table 9-3 lists the volume percent of coating for single-component and multi-component formulations. Single-component coatings are those that are “ready-to-use” from the can, while multi-component coatings require that two or more materials be mixed to catalyze or activate the coating prior to use.

Table 9-3: Single-Component/Multi-Component Breakdown

Coating Category	Total		Solvent-Borne		Water-Borne	
	% Single	% Multi	% Single	% Multi	% Single	% Multi
Bituminous Roof	100%	0%	100%	0%	100%	0%
Bituminous Roof Primer	100%	0%	100%	0%	100%	0%
Bond Breakers	100%	0%	100%	0%	100%	0%
Clear Brushing Lacquer	100%	0%	100%	0%	0%	0%
Concrete Curing Compounds	100%	0%	100%	0%	100%	0%
Driveway Sealer	100%	0%	100%	0%	100%	0%
Dry Fog	97%	3%	95%	5%	100%	0%
Faux Finishing	100%	0%	100%	0%	100%	0%
Fire Resistive	91%	9%	78%	22%	100%	0%
Fire Retardant - Clear	100%	0%	100%	0%	0%	0%
Fire Retardant - Opaque	100%	0%	100%	0%	100%	0%
Flat	100%	0%	94%	6%	100%	0%
Floor	90%	10%	39%	61%	97%	3%
Form Release Compounds	100%	0%	100%	0%	99%	1%
Graphic Arts	100%	0%	100%	0%	100%	0%
High Temperature	100%	0%	100%	0%	0%	0%
Industrial Maintenance	60%	40%	48%	52%	82%	18%
Lacquers	100%	0%	100%	0%	100%	0%
Low Solids	100%	0%	0%	0%	100%	0%
Magnesite Cement	100%	0%	100%	0%	0%	0%
Mastic Texture	100%	0%	100%	0%	100%	0%
Metallic Pigmented	95%	5%	95%	5%	94%	6%
Multi-Color	100%	0%	100%	0%	100%	0%
Nonflat - High Gloss	100%	0%	97%	3%	100%	0%
Nonflat - Low Gloss	100%	0%	100%	0%	100%	0%
Nonflat - Medium Gloss	100%	0%	100%	0%	100%	0%
Other	96%	4%	11%	89%	99%	1%
Pre-Treatment Wash Primer	81%	19%	0%	100%	100%	0%
Primer, Sealer, and Undercoater	100%	0%	97%	3%	100%	0%
Quick Dry Enamel	100%	0%	100%	0%	100%	0%
Quick Dry Primer, Sealer, and Undercoater	100%	0%	100%	0%	100%	0%
Recycled	100%	0%	0%	0%	100%	0%
Roof	100%	0%	95%	5%	100%	0%
Rust Preventative	100%	0%	100%	0%	100%	0%

Table 9-3: Single-Component/Multi-Component Breakdown

Coating Category	Total		Solvent-Borne		Water-Borne	
	% Single	% Multi	% Single	% Multi	% Single	% Multi
Sanding Sealers	94%	6%	91%	9%	100%	0%
Shellacs - Clear	100%	0%	100%	0%	0%	0%
Shellacs - Opaque	100%	0%	100%	0%	0%	0%
Specialty Primer, Sealer, and Undercoater	100%	0%	100%	0%	100%	0%
Stains - Clear/Semitransparent	95%	5%	93%	7%	100%	0%
Stains - Opaque	100%	0%	100%	0%	100%	0%
Swimming Pool	16%	84%	4%	96%	37%	63%
Swimming Pool Repair and Maintenance	100%	0%	100%	0%	0%	0%
Traffic Marking	100%	0%	99%	1%	100%	0%
Varnishes - Clear	90%	10%	99%	1%	67%	33%
Varnishes - Semitransparent	98%	2%	98%	2%	100%	0%
Waterproofing Concrete/Masonry Sealers	85%	15%	76%	24%	96%	4%
Waterproofing Sealers	98%	2%	92%	8%	100%	0%
Wood Preservatives	100%	0%	100%	0%	100%	0%
Totals:	99%	1%	91%	9%	100%	0%

Notes:

1. This table contains percentages based on sales volume.
2. The data in this table include sales of small containers (1 quart or less).

Subtotals:	Solvent-Borne Single-Component Sales (gals):	12,098,061
	Solvent-Borne Multi-Component Sales (gals):	1,213,025
	Water-Borne Single-Component Sales (gals):	97,053,866
	Water-Borne Multi-Component Sales (gals):	311,722
	Grand Total (gals):	110,676,675

Chapter 10 -- Ingredients

The 2005 survey gathered speciation data for all volatile ingredients (VOCs, exempt compounds, and water). Data were collected for all volatile ingredients that amounted to at least 0.1% (by weight) of each coating. These will be used to update ARB's speciation profiles for architectural coatings. It will also be used when ARB staff evaluate the feasibility of a reactivity-based regulation. The quantity of VOC ingredients summarized in this chapter is very close to the quantity of VOC emissions calculated in Chapter 5. This indicates that there is good correlation between the speciated ingredient data and the reported VOC Actual values.

To evaluate the reactivity of architectural coatings, we will use the Maximum Incremental Reactivity (MIR) scale, developed by Dr. William Carter¹. The MIR values quantify the potential for a chemical to form ozone. For each coating category, we will develop a profile of the volatile ingredients that are present, including exempt compounds. In one approach, which was used in the ARB's aerosol coatings regulation, we would then use the MIR values for specific volatile ingredients to develop a product-weighted MIR for a coating category, as shown in the example below:

Ingredient	CAS #	Weight Fraction	MIR Value (g O ₃ /g product)	Weighted Reactivity
1,2-Propanediol	57-55-6	4%	2.74	0.110
2,2,4-Trimethyl-1,3-Pentenediol Monoisobutyrate	25265-77-4	2%	0.88	0.018
2-(2-Butoxyethoxy)-Ethanol	112-34-5	4%	2.87	0.115
2-(2-Methoxyethoxy)-Ethanol	111-77-3	3%	2.88	0.086
Water	7732-18-5	54%	0	0
Solids		33%	0	0
		100%		0.329
Product-Weighted MIR = 0.329 grams ozone/gram product				

Some members of the architectural coatings industry have indicated that they do not believe this approach, although appropriate for aerosol coatings, is suitable for architectural coatings. We will be working with the industry and local air districts as we consider methods to evaluate a reactivity-based control measure for architectural coatings.

Hydrocarbon solvents comprise a significant quantity of the VOCs in architectural coatings. Since hydrocarbon solvents are complex mixtures of individual organic compounds, it is necessary to use a different approach when assigning MIR values to these mixtures. For ARB's aerosol coatings regulation, hydrocarbon solvents were assigned to various "bins", based on the boiling point range, aromatic content, and type

¹ William P.L. Carter, Ph.D.; Research Chemist; Air Pollution Research Center and College of Engineering, Center for Environmental Research and Technology; University of California, Riverside, CA
See also: <http://pah.cert.ucr.edu/~carter>

of hydrocarbon (e.g., normal, cyclic, or isoparaffinic). All hydrocarbon solvents that were grouped in a given “bin” were assigned a MIR value. The 2005 architectural coating survey requested available data on bin numbers and survey respondents provided bin information for more than 90% of the reported hydrocarbon solvent mass.

This chapter includes the following data summaries:

Table 10-1: *VOC Ingredients (sorted by Weight) – All Coatings*

Table 10-2: *VOC Ingredients (sorted by Weight) - Solvent-borne Coatings*

Table 10-3: *VOC Ingredients (sorted by Weight) – Water-borne Coatings*

Table 10-4: *VOC Ingredients (sorted by Weight) – All Coatings*

Table 10-5: *VOC Ingredients (sorted by CAS #) – Solvent-borne Coatings*

Table 10-6: *VOC Ingredients (sorted by CAS #) – Water-borne Coatings*

Table 10-7: *Exempt Compounds (sorted by Weight) – All Coatings*

Table 10-8: *Exempt Compounds (sorted by Weight) - Solvent-borne Coatings*

Table 10-9: *Exempt Compounds (sorted by Weight) – Water-borne Coatings*

Table 10-10: *Hydrocarbon Solvents Only (sorted by Bin and CAS#) - All Coatings*

Table 10-11: *Hydrocarbon Solvents Only (sorted by Weight) - Solvent-borne Coatings*

Table 10-12: *Hydrocarbon Solvents Only (sorted by Weight) - Water-borne Coatings*

Table 10-13: *Ingredient Listing by Category (VOCs & Exempts) – All Coatings*

Tables 10-1 through 10-6 list the quantities of reported ingredients that are classified as VOCs, including solvent-borne and water-borne breakouts. These tables are sorted by weight, in descending order, and by CAS number. Tables 10-7 through 10-9 display ingredients that are classified as exempt compounds. Tables 10-10 through 10-12 display the hydrocarbon solvents reported, and corresponding Bin numbers. Table 10-13 contains an ingredient listing for each coating category. A small number of survey respondents reported the solid components in their coatings, but these data are not included in this report. In some tables, ingredients that were reported in small quantities are grouped together under the name “Other Ingredients”.

CAS #	Ingredient Name	Sales Quantity (lbs)
0	Bin 11 Hydrocarbon Solvent	16,006,986
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	11,065,415
107211	Ethylene Glycol	9,687,072
57556	Propylene Glycol	4,844,312
0	Bin 15 Hydrocarbon Solvent	3,795,417
0	Bin 6 Hydrocarbon Solvent	1,910,517
0	Bin 10 Hydrocarbon Solvent	1,831,467
112345	2-(2-Butoxyethoxy)ethanol	1,567,280
0	Bin 22 Hydrocarbon Solvent	1,531,029
1330207	Xylene	1,354,357
0	Bin 12 Hydrocarbon Solvent	1,058,946
9981	Aggregated VOCs < 0.1%	952,836
124685	2-Amino-2-methyl-1-propanol	942,257
111762	2-Butoxy Ethanol	926,682
64175	Ethanol	860,652
123864	Butyl Acetate, 1-	811,945
0	Bin 9 Hydrocarbon Solvent	521,370
67561	Methanol	516,625
110430	Methyl-n-Amyl Ketone	470,351
67630	Isopropanol	430,092
8052413	Stoddard Solvent	408,577
0	Bin 14 Hydrocarbon Solvent	395,107
64741442	Straight-run middle distillate	367,597
34590948	Dipropylene Glycol Methyl Ether	311,408
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	291,675
0	Bin 2 Hydrocarbon Solvent	281,473
64742887	Medium Aliphatic Solvent Naphtha	273,160
95636	1,2,4-Trimethylbenzene	257,353
8008206	Kerosene	253,481
0	Bin 5 Hydrocarbon Solvent	237,108
0	Bin 23 Hydrocarbon Solvent	235,284
108883	Toluene	229,810
111773	2-(2-methoxyethoxy)ethanol	208,653
111466	Diethylene Glycol	192,457
78831	1-Propanol, 2-Methyl-	183,915
29911271	Dipropylene Glycol Monopropyl Ether	178,630
64742536	Hydrotreated light naphthenic distillate	177,452

Table 10-1: VOC Ingredients (sorted by Weight) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
108327	Propylene carbonate	164,924
100414	Ethyl Benzene	160,572
68476302	Fuel oil no. 2	134,535
96297	Ethyl methyl ketone oxime	133,701
5444757	2-Ethylhexyl Benzoate	128,168
108656	Propylene Glycol Monomethyl Ether Acetate	121,734
97858	Isobutyl Isobutyrate	119,202
64742489	Hydrotreated Heavy Naphtha	117,035
71363	n-Butanol	112,430
108101	Methyl Isobutyl Ketone	98,649
78933	Methyl Ethyl Ketone	95,508
872504	1-Methyl-2-Pyrrolidinone	94,717
2807309	2-Propoxyethanol	92,752
107982	Propylene Glycol Monomethyl Ether	87,373
64742898	VM&P Naphtha	85,754
5131668	1-Butoxy-2-Propanol	72,747
108678	Mesitylene	54,221
64742525	Hydrotreated heavy naphthenic distillate	51,272
112276	Triethylene Glycol	49,033
0	Bin 24 Hydrocarbon Solvent	47,787
8012951	Mineral Oil	47,669
124174	2-(2-butoxyethoxy)ethyl acetate	45,116
64741884	Solvent-refined heavy paraffinic distillate	42,897
51200874	4,4-Dimethyloxazolidine	41,124
100516	Benzyl Alcohol	35,626
78922	Butyl Alcohol, Sec-	33,695
0	Bin 7 Hydrocarbon Solvent	31,719
25265718	Dipropylene Glycol	30,556
25551137	Trimethyl Benzene (mixed isomers)	28,286
64741895	Paraffinic distillate	26,502
763699	Ethyl 3-ethoxypropionate	24,643
21564170	Thiocyanic acid (2-benzoathiazolythio)methyl ester	24,354
64742478	Distillate(petroleum), hydrotreated light	23,154
67685	Dimethylsulfoxide	22,408
110190	Isobutyl Acetate	21,764
107879	2-Pentanone	21,743
138863	Limonene	20,450
126738	Tributyl Phosphate	19,834
108032	1-Nitropropane	19,345
25498491	Tripropylene glycol methyl ether	18,975
770354	2-Propanol, 1-phenoxy-	17,878
110123	Methyl Isoamyl Ketone	16,413
141786	Ethyl Acetate	16,212
0	Bin 16 Hydrocarbon Solvent	15,193
121448	Triethylamine	15,029
122996	Phenoxyethanol, 2-	14,523
9985	Other VOC	14,517
2943751	Triethoxyoctylsilane	14,486
0	Bin 21 Hydrocarbon Solvent	13,995
1569013	Propylene Glycol Monopropyl Ether	13,916

Table 10-1: VOC Ingredients (sorted by Weight) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
5989275	D-limonene	12,513
4719044	Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	11,622
108383	Meta-Xylene	11,034
75070	Acetaldehyde	10,352
111900	Ethanol, 2-(2-ethoxyethoxy)	10,089
143226	Triethylene Glycol Monobutyl Ether	9,625
1559359	Ethylene Glycol Mono-2-Ethyl Hexyl Ether	9,174
88230357	Oxohexyl Acetate	9,122
112072	Butoxyethyl Acetate, 2-	8,808
590012	Butyl Propionate	8,772
127087870	Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	8,675
0	Residual Monomer(s)	8,496
8032324	Petroleum ether	8,364
111109774	Dipropylene Glycol Dimethyl Ether	7,844
64742956	Aromatic 100	7,187
628637	Amyl Acetate	6,996
96480	gamma-Butyrolactone	6,971
64741419	Heavy straight-run naphtha	6,918
64742047	Heavy paraffinic distillate solvent extract	6,917
25550145	Ethylmethylbenzene	6,914
98828	Cumene	6,692
108838	2,6-Dimethyl-4-heptanone	6,566
108010	n,n-Dimethylethanolamine	6,511
34375285	Troysan 174	6,379
123422	2-Pentanone, 4-Hydroxy-4-Methyl-	5,628
68154643	Fatty Acids	5,605
4253343	Methyltriacetoxysilane	5,419
540885	tert-Butyl acetate	5,208
108419358	Oxo-tridecyl Acetate	5,007
108930	Cyclohexanol	4,801
64741657	Petroleum naphtha, heavy alkylate	4,502
106423	Para-Xylene	4,485
4420740	(3-Mercaptopropyl)trimethoxysilane	4,346
0	Preservative	4,342
27646806	2(Methylamino)-2-methyl-1-propanol	4,287
88917220	Dipropylene Glycol Methyl Ether Acetate	4,175
0	Fuel Oil	4,135
95476	Ortho-Xylene	3,992
64197	Acetic Acid	3,924
122510	Ethyl orthoformate	3,621
68476346	Fuel oil no. 2	3,377
91203	Naphthalene	3,206
15821837	2-Butoxy-1-Propanol	3,185
1119400	Dimethyl glutarate	3,132
79243	Nitroethane	3,102
68410979	Hydrotreated Light Distillate	3,101
64742945	Heavy aromatic naphtha solvent	3,053
100425	Styrene	2,793
108941	Cyclohexanone	2,688

Table 10-1: VOC Ingredients (sorted by Weight) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
19549805	4,6-Dimethyl-2-heptanone	2,652
149735	Trimethoxymethane	2,547
110985	1,1-Oxydi-2-propanol	2,450
104767	2-Ethyl-1-Hexanol	2,252
119642	1,2,3,4-Tetrahydronaphthalene	2,177
109604	n-Propyl Acetate	2,152
0	Alcohols	2,116
78104	Tetraethyl Orthosilicate	2,085
9003138	Poly[oxy(methyl-1,2-ethanediyl)], alpha-butyl-omega-hydroxy-	1,950
123546	2,4-Pentanedione	1,879
141435	Ethanolamine	1,778
25013154	Vinyl Toluene	1,745
64742821	Hydrodesulfurized Heavy Naphtha	1,670
22984549	Methyltris(ethylmethylketoxime)silane	1,662
110918	Morpholine	1,622
919302	1-Propanamine, 3-(triethoxysilyl)	1,567
0	Glycol Ethers	1,541
142825	Heptane	1,510
115968	Tris(2-Chloroethyl)Phosphate	1,469
64742490	Naphtha, Petroleum, Hydrotreated Light	1,360
78513	Tri(butyl cellosolve) phosphate	1,352
50000	Formaldehyde	1,315
1559360	Diethylene Glycol Mono-2-Ethyl Hexyl Ether	1,304
112594	Hexyl Carbitol, N-	1,290
104687	2-(2-phenoxyethoxy)ethanol	1,139
526738	Trimethyl Benzene, 1,2,3-	1,124
627930	Dimethyl adipate	1,117
149575	2-Ethylhexanoic Acid	1,064
25340174	Diethyl Benzene	1,026
84852153	4-Nonylphenol (branched)	1,021
64742467	Petroleum distillates, hydrotreated middle	1,000
41593388	Phenoxypropanol	984
64771728	Isoparaffinic hydrocarbons	931
0	Bin 1 Hydrocarbon Solvent	924
6846500	Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester	880
75912	Tert-Butyl Hydroperoxide	879
2320061	1-phenyl-1-(4-isopropyl-phenyl)-ethane	835
51730940	Dipropylene glycol phenyl ether	810
57018527	Propylene Glycol t-Butyl Ether	767
111400	Diethylene Triamine	741
614459	Peroxybenzoic Acid, tert-Butyl Ester	725
0	Biocide	683
142927	n-Hexyl Acetate	678
98000	Furfuryl mercaptan	646
8042475	Petroleum Distillates	642
123922	Isopentyl Acetate	610
2530872	(3-Chloropropyl)trimethoxysilane	541
111273	Hexanol, N-	519
107415	2-Methyl-2,4-pentanediol	511

Table 10-1: VOC Ingredients (sorted by Weight) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
0	Aliphatic Solvent	505
71195647	Pentanedioic acid, bis(2-methylpropyl) ester	501
61791535	Amines, N-tallow alkyltrimethylenedi-, oleates	495
52299204	2((Hydroxymethyl)amino)-iso-butanol	488
102716	Triethanolamine	463
0	Petroleum Hydrocarbon	449
83817725	Di (ethylmethylketoxime) methoxy methyl silane	416
1760243	n-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	407
694837	1,2-Cyclohexanediamine	398
2466673	1-Butanol, 3-methyl-, dihydrogen phosphate	392
68648873	Benzene, C10-16-alkyl derivs.	386
107222	Glyoxal	348
13822565	1-Propanamine, 3-(trimethoxysilyl)-	342
111159	Ethoxyethyl Acetate	330
107153	Ethylenediamine	305
8002093	Pine oil	276
71238	n-Propyl Alcohol	269
1477550	m-Xylene-a,a-diamine	250
682111	Trimethylolpropane Monoallyl Ether	208
7397628	Butyl glycolate	204
0	Mergal 395	196
103093	2-Ethylhexyl Acetate	177
110543	Hexane	173
56709138	Bicyclic Oxazolidine	164
141048	Hexanedioic Acid, bis(2-methylpropyl) Ester	163
925064	Butanedioic Acid, bis(2-methylpropyl) Ester	163
88164	Chlorobenzotrifluoride	133
79107	Acrylic Acid	119
56235	Carbon Tetrachloride	110
0	Petroleum Distillate	105
110805	Ethoxyethanol, 2-	104
109897	Diethylamine	103
8030306	Naphtha	102
108952	Phenol	84
0	Odorant	83
103651	n-Propylbenzene	82
80159	Cumene Hydroperoxide	79
6440580	Troysan 395	75
71432	Benzene	75
100378	Diethylaminoethanol	72
142905	2-Methyl-2-Propenoic Acid, Dodecyl Ester	71
103833	Benzyl dimethylamine	71
90438792	Oxo-Heptyl Acetate	70
64742650	Distillates, petroleum, solvent-dewaxed heavy paraffinic	64
68609972	Oxirane, mono ((C12 - 14 - alkyloxy) methyl) derivatives	64
1589475	Propylene Glycol Monomethyl Ether	60
1185553	Trimethoxymethylsilane	59
64742547	Hydrotreated Heavy Paraffinic Distillate	55
0	Fatty Acids	53
112243	Triethylenetetramine	52

Table 10-1: VOC Ingredients (sorted by Weight) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
106650	Dimethyl Succinate	52
110634	1,4-Butanediol	50
328847	3,4-Dichlorobenzotrifluoride	45
27138314	Propanol, oxybis-, dibenzoate	44
60864337	Benzyl ether of 1,1,3,3-tetramethylbutylphenoxypolyethoxy ethanol	40
2855132	Isophorone diamine	33
68956569	Terpenes	28
25707704	1,2-Ethanediamine, N,N'-bis (1,3-dimethylbutylidene)-	28
111422	Diethanolamine	22
78966	1-Amino-2-Propanol	21
0	Dibasic Esters	20
107880	Butanediol, 1,3-	20
9043305	Polyethylene glycol monoisotridecyl ether	18
112572	Tetraethylenepentamine	17
70657704	2-Methoxy-1-propanol acetate	17
121437	Trimethyl Borate	16
26447143	Cresyl Glycidyl Ether (mixed isomers)	14
80466	t-Amyl Phenol	13
52125538	Propylene Glycol Monoethyl Ether	13
110850	Piperazine	12
0	Nopco NXZ Defoamer	12
0	Bin 13 Hydrocarbon Solvent	11
69009901	1,1'-Biphenyl, bis(1-methylethyl)-	11
3586558	(Ethylenedioxy)dimethanol	11
109591	2-Isopropoxyethanol	8
78591	Isophorone	8
0	Saturated Hydrocarbon Distillates	7
108419325	Oxo-Octyl Acetate	7
26183528	Polyethylene glycol monodecyl ether	6
2426086	Butyl Glycidal Ether, N-	6
90722	Tris(dimethylaminomethyl)phenol	5
29225910	1,1'-Biphenyl, tris(1-methylethyl)-	5
100743	Ethylmorpholine, N-	5
109999	Tetrahydrofuran	5
68439463	Alcohols, C9-11, ethoxylated	4
98862	Acetophenone	4
24800440	Tripropylene glycol	4
2031676	Methyl Triethoxysilane	3
100447	Benzyl Chloride	3
108112	Methylisobutyl Carbinol	3
110827	Cyclohexane	2
1241947	Phosphoric acid, 2-ethylhexyl diphenyl ester	1
3302101	3,5,5-Trimethylhexanoic Acid	1
108872	Methylcyclohexane	1
68439509	Fatty Alcohols	1
105533	Diethyl Malonate	1
77941	Tributyl Citrate	1

Table 10-1: VOC Ingredients (sorted by Weight) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
	All Coatings VOCs Total (lbs) =	68,701,857
	All Coatings VOCs Total (tons/yr) =	34,351
	All Coatings VOCs Total (tons/day) =	94.1

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

Table 10-2: VOC Ingredients (sorted by Weight) – Solvent-borne Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
0	Bin 11 Hydrocarbon Solvent	15,653,769
0	Bin 15 Hydrocarbon Solvent	3,650,207
0	Bin 6 Hydrocarbon Solvent	1,891,109
0	Bin 10 Hydrocarbon Solvent	1,803,228
0	Bin 22 Hydrocarbon Solvent	1,477,495
1330207	Xylene	1,336,843
0	Bin 12 Hydrocarbon Solvent	1,037,443
64175	Ethanol	814,676
123864	Butyl Acetate, 1-	810,867
0	Bin 9 Hydrocarbon Solvent	502,317
110430	Methyl-n-Amyl Ketone	470,351
8052413	Stoddard Solvent	406,911
67630	Isopropanol	396,057
0	Bin 14 Hydrocarbon Solvent	374,896
64741442	Straight-run middle distillate	357,686
111762	2-Butoxy Ethanol	303,507
0	Bin 2 Hydrocarbon Solvent	280,644
64742887	Medium Aliphatic Solvent Naphtha	273,157
8008206	Kerosene	253,481
0	Bin 5 Hydrocarbon Solvent	236,978
95636	1,2,4-Trimethylbenzene	234,141
108883	Toluene	217,375
0	Bin 23 Hydrocarbon Solvent	211,292
78831	1-Propanol, 2-Methyl-	183,809
64742536	Hydrotreated light naphthenic distillate	166,749
108327	Propylene carbonate	164,924
100414	Ethyl Benzene	159,865
68476302	Fuel oil no. 2	132,090
96297	Ethyl methyl ketone oxime	121,470
97858	Isobutyl Isobutyrate	119,202
108656	Propylene Glycol Monomethyl Ether Acetate	118,744
64742489	Hydrotreated Heavy Naphtha	117,035
71363	n-Butanol	110,649
9981	Aggregated VOCs < 0.1%	101,424
108101	Methyl Isobutyl Ketone	98,649
78933	Methyl Ethyl Ketone	95,470
64742898	VM&P Naphtha	85,754
64742525	Hydrotreated heavy naphthenic distillate	51,157
8012951	Mineral Oil	47,669

Table 10-2: VOC Ingredients (sorted by Weight) – Solvent-borne Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
0	Bin 24 Hydrocarbon Solvent	47,667
108678	Mesitylene	47,630
107982	Propylene Glycol Monomethyl Ether	45,963
100516	Benzyl Alcohol	32,076
0	Bin 7 Hydrocarbon Solvent	31,714
25551137	Trimethyl Benzene (mixed isomers)	28,258
2807309	2-Propoxyethanol	28,190
67561	Methanol	27,601
763699	Ethyl 3-ethoxypropionate	24,581
21564170	Thiocyanic acid (2-benzoathiazolythio)methyl ester	24,354
64742478	Distillate(petroleum), hydrotreated light	22,529
110190	Isobutyl Acetate	21,764
107879	2-Pentanone	21,743
138863	Limonene	20,450
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	18,437
124174	2-(2-butoxyethoxy)ethyl acetate	17,085
25498491	Tripropylene glycol methyl ether	16,748
110123	Methyl Isoamyl Ketone	16,413
0	Bin 16 Hydrocarbon Solvent	14,948
5989275	D-limonene	12,511
0	Bin 21 Hydrocarbon Solvent	11,061
108383	Meta-Xylene	11,034
108032	1-Nitropropane	10,985
111773	2-(2-methoxyethoxy)ethanol	10,801
107211	Ethylene Glycol	10,623
112345	2-(2-Butoxyethoxy)ethanol	9,191
88230357	Oxohexyl Acetate	9,094
590012	Butyl Propionate	8,772
8032324	Petroleum ether	8,364
112072	Butoxyethyl Acetate, 2-	8,139
9985	Other VOC	7,397
628637	Amyl Acetate	6,996
64741419	Heavy straight-run naphtha	6,918
64742047	Heavy paraffinic distillate solvent extract	6,917
25550145	Ethylmethylbenzene	6,909
98828	Cumene	6,656
108838	2,6-Dimethyl-4-heptanone	6,566
124685	2-Amino-2-methyl-1-propanol	5,829
64742956	Aromatic 100	5,626
68154643	Fatty Acids	5,605
4253343	Methyltriacetoxysilane	5,419
540885	tert-Butyl acetate	5,208
34590948	Dipropylene Glycol Methyl Ether	4,897
108930	Cyclohexanol	4,801
106423	Para-Xylene	4,485
4420740	(3-Mercaptopropyl)trimethoxysilane	4,346
0	Fuel Oil	4,135
88917220	Dipropylene Glycol Methyl Ether Acetate	4,119
5131668	1-Butoxy-2-Propanol	4,079
95476	Ortho-Xylene	3,992

Table 10-2: VOC Ingredients (sorted by Weight) – Solvent-borne Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
122510	Ethyl orthoformate	3,621
123422	2-Pentanone, 4-Hydroxy-4-Methyl-	3,504
68476346	Fuel oil no. 2	3,377
91203	Naphthalene	3,183
141786	Ethyl Acetate	3,154
1119400	Dimethyl glutarate	3,132
68410979	Hydrotreated Light Distillate	3,101
79243	Nitroethane	3,089
64742945	Heavy aromatic naphtha solvent	2,995
19549805	4,6-Dimethyl-2-heptanone	2,652
100425	Styrene	2,600
149735	Trimethoxymethane	2,547
64741657	Petroleum naphtha, heavy alkylate	2,237
119642	1,2,3,4-Tetrahydronaphthalene	2,177
109604	n-Propyl Acetate	2,152
78104	Tetraethyl Orthosilicate	2,085
0	Other Ingredients (<100 Lbs each)	1,940
123546	2,4-Pentanedione	1,879
25013154	Vinyl Toluene	1,745
64742821	Hydrodesulfurized Heavy Naphtha	1,670
22984549	Methyltris(ethylmethylketoxime)silane	1,662
108941	Cyclohexanone	1,610
142825	Heptane	1,510
64742490	Naphtha, Petroleum, Hydrotreated Light	1,360
57556	Propylene Glycol	1,239
25265718	Dipropylene Glycol	1,156
2943751	Triethoxyoctylsilane	1,131
526738	Trimethyl Benzene, 1,2,3-	1,122
627930	Dimethyl adipate	1,117
84852153	4-Nonylphenol (branched)	1,021
64742467	Petroleum distillates, hydrotreated middle	1,000
25340174	Diethyl Benzene	940
64771728	Isoparaffinic hydrocarbons	931
0	Bin 1 Hydrocarbon Solvent	921
149575	2-Ethylhexanoic Acid	886
6846500	Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester	880
2320061	1-phenyl-1-(4-isopropyl-phenyl)-ethane	835
0	Glycol Ethers	824
57018527	Propylene Glycol t-Butyl Ether	767
614459	Peroxybenzoic Acid, tert-Butyl Ester	725
111400	Diethylene Triamine	716
872504	1-Methyl-2-Pyrrolidinone	679
104767	2-Ethyl-1-Hexanol	678
1569013	Propylene Glycol Monopropyl Ether	672
142927	n-Hexyl Acetate	664
98000	Furfuryl mercaptan	646
123922	Isopentyl Acetate	610
2530872	(3-Chloropropyl)trimethoxysilane	541
61791535	Amines, N-tallow alkyltrimethylenedi-, oleates	495

CAS #	Ingredient Name	Sales Quantity (lbs)
107415	2-Methyl-2,4-pentanediol	487
50000	Formaldehyde	419
83817725	Di (ethylmethylketoxime) methoxy methyl silane	416
694837	1,2-Cyclohexanediamine	398
2466673	1-Butanol, 3-methyl-, dihydrogen phosphate	392
110918	Morpholine	391
68648873	Benzene, C10-16-alkyl derivs.	386
13822565	1-Propanamine, 3-(trimethoxysilyl)-	342
111159	Ethoxyethyl Acetate	330
107153	Ethylenediamine	305
8002093	Pine oil	273
71238	n-Propyl Alcohol	269
1477550	m-Xylene-a,a-diamine	250
64741895	Paraffinic distillate	223
7397628	Butyl glycolate	204
121448	Triethylamine	199
0	Mergal 395	196
103093	2-Ethylhexyl Acetate	177
110543	Hexane	173
88164	Chlorobenzotrifluoride	133
122996	Phenoxyethanol, 2-	114
56235	Carbon Tetrachloride	110
8030306	Naphtha	102
	Solvent-borne VOCs Subtotal (lbs) =	35,685,187
	Solvent-borne VOCs Subtotal (tons/yr) =	17,843
	Solvent-borne VOCs Subtotal (tons/day) =	48.9

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

CAS #	Ingredient Name	Sales Quantity (lbs)
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	11,046,978
107211	Ethylene Glycol	9,676,449
57556	Propylene Glycol	4,843,073
112345	2-(2-Butoxyethoxy)ethanol	1,558,090
124685	2-Amino-2-methyl-1-propanol	936,427
9981	Aggregated VOCs < 0.1%	851,412
111762	2-Butoxy Ethanol	623,175
67561	Methanol	489,024
0	Bin 11 Hydrocarbon Solvent	353,173
34590948	Dipropylene Glycol Methyl Ether	306,510
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	291,670
111773	2-(2-methoxyethoxy)ethanol	197,852
111466	Diethylene Glycol	192,411
29911271	Dipropylene Glycol Monopropyl Ether	178,630
0	Bin 15 Hydrocarbon Solvent	145,102
5444757	2-Ethylhexyl Benzoate	128,168

Table 10-3: VOC Ingredients (sorted by Weight) – Water-borne Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
872504	1-Methyl-2-Pyrrolidinone	94,038
5131668	1-Butoxy-2-Propanol	68,667
2807309	2-Propoxyethanol	64,562
0	Bin 22 Hydrocarbon Solvent	53,494
112276	Triethylene Glycol	49,033
64175	Ethanol	45,975
64741884	Solvent-refined heavy paraffinic distillate	42,897
107982	Propylene Glycol Monomethyl Ether	41,410
51200874	4,4-Dimethyloxazolidine	41,124
67630	Isopropanol	34,035
78922	Butyl Alcohol, Sec-	33,687
25265718	Dipropylene Glycol	29,400
0	Bin 10 Hydrocarbon Solvent	28,214
124174	2-(2-butoxyethoxy)ethyl acetate	28,031
64741895	Paraffinic distillate	26,280
0	Bin 23 Hydrocarbon Solvent	23,851
95636	1,2,4-Trimethylbenzene	23,212
67685	Dimethylsulfoxide	22,318
0	Bin 12 Hydrocarbon Solvent	21,437
0	Bin 14 Hydrocarbon Solvent	20,125
126738	Tributyl Phosphate	19,834
0	Bin 6 Hydrocarbon Solvent	19,346
0	Bin 9 Hydrocarbon Solvent	19,037
770354	2-Propanol, 1-phenoxy-	17,878
1330207	Xylene	17,514
121448	Triethylamine	14,831
122996	Phenoxyethanol, 2-	14,409
2943751	Triethoxyoctylsilane	13,354
1569013	Propylene Glycol Monopropyl Ether	13,244
141786	Ethyl Acetate	13,058
108883	Toluene	12,435
96297	Ethyl methyl ketone oxime	12,232
4719044	Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	11,622
64742536	Hydrotreated light naphthenic distillate	10,703
75070	Acetaldehyde	10,352
111900	Ethanol, 2-(2-ethoxyethoxy)	10,089
64741442	Straight-run middle distillate	9,911
143226	Triethylene Glycol Monobutyl Ether	9,625
1559359	Ethylene Glycol Mono-2-Ethyl Hexyl Ether	9,174
127087870	Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	8,669
0	Residual Monomer(s)	8,496
108032	1-Nitropropane	8,360
111109774	Dipropylene Glycol Dimethyl Ether	7,844
9985	Other VOC	7,119
96480	gamma-Butyrolactone	6,971
108678	Mesitylene	6,590
108010	n,n-Dimethylethanolamine	6,510
34375285	Troysan 174	6,379
108419358	Oxo-tridecyl Acetate	5,007

Table 10-3: VOC Ingredients (sorted by Weight) – Water-borne Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
0	Preservative	4,337
27646806	2(Methylamino)-2-methyl-1-propanol	4,287
64197	Acetic Acid	3,869
100516	Benzyl Alcohol	3,550
15821837	2-Butoxy-1-Propanol	3,185
108656	Propylene Glycol Monomethyl Ether Acetate	2,990
0	Bin 21 Hydrocarbon Solvent	2,934
110985	1,1-Oxydi-2-propanol	2,450
68476302	Fuel oil no. 2	2,445
64741657	Petroleum naphtha, heavy alkylate	2,265
25498491	Tripropylene glycol methyl ether	2,227
123422	2-Pentanone, 4-Hydroxy-4-Methyl-	2,124
0	Alcohols	2,116
9003138	Poly[oxy(methyl-1,2-ethanediyl)], alpha-butyl-omega-hydroxy-	1,950
71363	n-Butanol	1,781
141435	Ethanolamine	1,778
8052413	Stoddard Solvent	1,666
104767	2-Ethyl-1-Hexanol	1,574
919302	1-Propanamine, 3-(triethoxysilyl)	1,567
64742956	Aromatic 100	1,561
115968	Tris(2-Chloroethyl)Phosphate	1,469
0	Other Ingredients (<100 Lbs each)	1,427
78513	Tri(butyl cellosolve) phosphate	1,352
1559360	Diethylene Glycol Mono-2-Ethyl Hexyl Ether	1,304
112594	Hexyl Carbitol, N-	1,290
110918	Morpholine	1,231
104687	2-(2-phenoxyethoxy)ethanol	1,136
108941	Cyclohexanone	1,078
123864	Butyl Acetate, 1-	1,077
41593388	Phenoxypropanol	984
50000	Formaldehyde	896
75912	Tert-Butyl Hydroperoxide	879
0	Bin 2 Hydrocarbon Solvent	829
51730940	Dipropylene glycol phenyl ether	810
0	Glycol Ethers	717
100414	Ethyl Benzene	707
0	Biocide	683
112072	Butoxyethyl Acetate, 2-	669
8042475	Petroleum Distillates	642
64742478	Distillate(petroleum), hydrotreated light	624
111273	Hexanol, N-	519
0	Aliphatic Solvent	505
71195647	Pentanedioic acid, bis(2-methylpropyl) ester	501
52299204	2((Hydroxymethyl)amino)-iso-butanol	488
0	Petroleum Hydrocarbon	449
102716	Triethanolamine	422
1760243	n-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	366
107222	Glyoxal	348
0	Bin 16 Hydrocarbon Solvent	243
682111	Trimethylolpropane Monoallyl Ether	208

CAS #	Ingredient Name	Sales Quantity (lbs)
100425	Styrene	194
149575	2-Ethylhexanoic Acid	178
56709138	Bicyclic Oxazolidine	164
925064	Butanedioic Acid, bis(2-methylpropyl) Ester	163
141048	Hexanedioic Acid, bis(2-methylpropyl) Ester	163
79107	Acrylic Acid	119
0	Bin 24 Hydrocarbon Solvent	119
64742525	Hydrotreated heavy naphthenic distillate	116
78831	1-Propanol, 2-Methyl-	106
0	Petroleum Distillate	105
110805	Ethoxyethanol, 2-	104
109897	Diethylamine	103
	Water-borne VOCs Subtotal (lbs) =	33,016,670
	Water-borne VOCs Subtotal (tons/yr) =	16,508
	Water-borne VOCs Subtotal (tons/day) =	45.2

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

CAS #	Ingredient Name	Sales Quantity (lbs)
0	Alcohols	2,116
0	Aliphatic Solvent	505
0	Bin 1 Hydrocarbon Solvent	924
0	Bin 2 Hydrocarbon Solvent	281,473
0	Bin 5 Hydrocarbon Solvent	237,108
0	Bin 6 Hydrocarbon Solvent	1,910,517
0	Bin 7 Hydrocarbon Solvent	31,719
0	Bin 9 Hydrocarbon Solvent	521,370
0	Bin 10 Hydrocarbon Solvent	1,831,467
0	Bin 11 Hydrocarbon Solvent	16,006,986
0	Bin 12 Hydrocarbon Solvent	1,058,946
0	Bin 13 Hydrocarbon Solvent	11
0	Bin 14 Hydrocarbon Solvent	395,107
0	Bin 15 Hydrocarbon Solvent	3,795,417
0	Bin 16 Hydrocarbon Solvent	15,193
0	Bin 21 Hydrocarbon Solvent	13,995
0	Bin 22 Hydrocarbon Solvent	1,531,029
0	Bin 23 Hydrocarbon Solvent	235,284
0	Bin 24 Hydrocarbon Solvent	47,787
0	Biocide	683
0	Dibasic Esters	20
0	Fatty Acids	53
0	Fuel Oil	4,135
0	Glycol Ethers	1,541
0	Mergal 395	196
0	Nopco NXZ Defoamer	12
0	Odorant	83

Table 10-4: VOC Ingredients (sorted by CAS#) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
0	Petroleum Distillate	105
0	Petroleum Hydrocarbon	449
0	Preservative	4,342
0	Residual Monomer(s)	8,496
0	Saturated Hydrocarbon Distillates	7
9981	Aggregated VOCs < 0.1%	952,836
9985	Other VOC	14,517
50000	Formaldehyde	1,315
56235	Carbon Tetrachloride	110
57556	Propylene Glycol	4,844,312
64175	Ethanol	860,652
64197	Acetic Acid	3,924
67561	Methanol	516,625
67630	Isopropanol	430,092
67685	Dimethylsulfoxide	22,408
71238	n-Propyl Alcohol	269
71363	n-Butanol	112,430
71432	Benzene	75
75070	Acetaldehyde	10,352
75912	Tert-Butyl Hydroperoxide	879
77941	Tributyl Citrate	1
78104	Tetraethyl Orthosilicate	2,085
78513	Tri(butyl cellosolve) phosphate	1,352
78591	Isophorone	8
78831	1-Propanol, 2-Methyl-	183,915
78922	Butyl Alcohol, Sec-	33,695
78933	Methyl Ethyl Ketone	95,508
78966	1-Amino-2-Propanol	21
79107	Acrylic Acid	119
79243	Nitroethane	3,102
80159	Cumene Hydroperoxide	79
80466	t-Amyl Phenol	13
88164	Chlorobenzotrifluoride	133
90722	Tris(dimethylaminomethyl)phenol	5
91203	Naphthalene	3,206
95476	Ortho-Xylene	3,992
95636	1,2,4-Trimethylbenzene	257,353
96297	Ethyl methyl ketone oxime	133,701
96480	gamma-Butyrolactone	6,971
97858	Isobutyl Isobutyrate	119,202
98000	Furfuryl mercaptan	646
98828	Cumene	6,692
98862	Acetophenone	4
100378	Diethylaminoethanol	72
100414	Ethyl Benzene	160,572
100425	Styrene	2,793
100447	Benzyl Chloride	3
100516	Benzyl Alcohol	35,626
100743	Ethylmorpholine, N-	5
102716	Triethanolamine	463

Table 10-4: VOC Ingredients (sorted by CAS#) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
103093	2-Ethylhexyl Acetate	177
103651	n-Propylbenzene	82
103833	Benzyl dimethylamine	71
104687	2-(2-phenoxyethoxy)ethanol	1,139
104767	2-Ethyl-1-Hexanol	2,252
105533	Diethyl Malonate	1
106423	Para-Xylene	4,485
106650	Dimethyl Succinate	52
107153	Ethylenediamine	305
107211	Ethylene Glycol	9,687,072
107222	Glyoxal	348
107415	2-Methyl-2,4-pentanediol	511
107879	2-Pentanone	21,743
107880	Butanediol, 1,3-	20
107982	Propylene Glycol Monomethyl Ether	87,373
108010	n,n-Dimethylethanolamine	6,511
108032	1-Nitropropane	19,345
108101	Methyl Isobutyl Ketone	98,649
108112	Methylisobutyl Carbinol	3
108327	Propylene carbonate	164,924
108383	Meta-Xylene	11,034
108656	Propylene Glycol Monomethyl Ether Acetate	121,734
108678	Mesitylene	54,221
108838	2,6-Dimethyl-4-heptanone	6,566
108872	Methylcyclohexane	1
108883	Toluene	229,810
108930	Cyclohexanol	4,801
108941	Cyclohexanone	2,688
108952	Phenol	84
109591	2-Isopropoxyethanol	8
109604	n-Propyl Acetate	2,152
109897	Diethylamine	103
109999	Tetrahydrofuran	5
110123	Methyl Isoamyl Ketone	16,413
110190	Isobutyl Acetate	21,764
110430	Methyl-n-Amyl Ketone	470,351
110543	Hexane	173
110634	1,4-Butanediol	50
110805	Ethoxyethanol, 2-	104
110827	Cyclohexane	2
110850	Piperazine	12
110918	Morpholine	1,622
110985	1,1-Oxydi-2-propanol	2,450
111159	Ethoxyethyl Acetate	330
111273	Hexanol, N-	519
111400	Diethylene Triamine	741
111422	Diethanolamine	22
111466	Diethylene Glycol	192,457
111762	2-Butoxy Ethanol	926,682
111773	2-(2-methoxyethoxy)ethanol	208,653

CAS #	Ingredient Name	Sales Quantity (lbs)
111900	Ethanol, 2-(2-ethoxyethoxy)	10,089
112072	Butoxyethyl Acetate, 2-	8,808
112243	Triethylenetetramine	52
112276	Triethylene Glycol	49,033
112345	2-(2-Butoxyethoxy)ethanol	1,567,280
112572	Tetraethylenepentamine	17
112594	Hexyl Carbitol, N-	1,290
115968	Tris(2-Chloroethyl)Phosphate	1,469
119642	1,2,3,4-Tetrahydronaphthalene	2,177
121437	Trimethyl Borate	16
121448	Triethylamine	15,029
122510	Ethyl orthoformate	3,621
122996	Phenoxyethanol, 2-	14,523
123422	2-Pentanone, 4-Hydroxy-4-Methyl-	5,628
123546	2,4-Pentanedione	1,879
123864	Butyl Acetate, 1-	811,945
123922	Isopentyl Acetate	610
124174	2-(2-butoxyethoxy)ethyl acetate	45,116
124685	2-Amino-2-methyl-1-propanol	942,257
126738	Tributyl Phosphate	19,834
138863	Limonene	20,450
141048	Hexanedioic Acid, bis(2-methylpropyl) Ester	163
141435	Ethanolamine	1,778
141786	Ethyl Acetate	16,212
142825	Heptane	1,510
142905	2-Methyl-2-Propenoic Acid, Dodecyl Ester	71
142927	n-Hexyl Acetate	678
143226	Triethylene Glycol Monobutyl Ether	9,625
149575	2-Ethylhexanoic Acid	1,064
149735	Trimethoxymethane	2,547
328847	3,4-Dichlorobenzotrifluoride	45
526738	Trimethyl Benzene, 1,2,3-	1,124
540885	tert-Butyl acetate	5,208
590012	Butyl Propionate	8,772
614459	Peroxybenzoic Acid, tert-Butyl Ester	725
627930	Dimethyl adipate	1,117
628637	Amyl Acetate	6,996
682111	Trimethylolpropane Monoallyl Ether	208
694837	1,2-Cyclohexanediamine	398
763699	Ethyl 3-ethoxypropionate	24,643
770354	2-Propanol, 1-phenoxy-	17,878
872504	1-Methyl-2-Pyrrolidinone	94,717
919302	1-Propanamine, 3-(triethoxysilyl)	1,567
925064	Butanedioic Acid, bis(2-methylpropyl) Ester	163
1119400	Dimethyl glutarate	3,132
1185553	Trimethoxymethylsilane	59
1241947	Phosphoric acid, 2-ethylhexyl diphenyl ester	1
1330207	Xylene	1,354,357
1477550	m-Xylene-a,a-diamine	250
1559359	Ethylene Glycol Mono-2-Ethyl Hexyl Ether	9,174

Table 10-4: VOC Ingredients (sorted by CAS#) – All Coatings		
CAS #	Ingredient Name	Sales Quantity (lbs)
1559360	Diethylene Glycol Mono-2-Ethyl Hexyl Ether	1,304
1569013	Propylene Glycol Monopropyl Ether	13,916
1589475	Propylene Glycol Monomethyl Ether	60
1760243	n-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	407
2031676	Methyl Triethoxysilane	3
2320061	1-phenyl-1-(4-isopropyl-phenyl)-ethane	835
2426086	Butyl Glycidal Ether, N-	6
2466673	1-Butanol, 3-methyl-, dihydrogen phosphate	392
2530872	(3-Chloropropyl)trimethoxysilane	541
2807309	2-Propoxyethanol	92,752
2855132	Isophorone diamine	33
2943751	Triethoxyoctylsilane	14,486
3302101	3,5,5-Trimethylhexanoic Acid	1
3586558	(Ethylenedioxy)dimethanol	11
4253343	Methyltriacetoxysilane	5,419
4420740	(3-Mercaptopropyl)trimethoxysilane	4,346
4719044	Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	11,622
5131668	1-Butoxy-2-Propanol	72,747
5444757	2-Ethylhexyl Benzoate	128,168
5989275	D-limonene	12,513
6440580	Troysan 395	75
6846500	Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester	880
7397628	Butyl glycolate	204
8002093	Pine oil	276
8008206	Kerosene	253,481
8012951	Mineral Oil	47,669
8030306	Naphtha	102
8032324	Petroleum ether	8,364
8042475	Petroleum Distillates	642
8052413	Stoddard Solvent	408,577
9003138	Poly[oxy(methyl-1,2-ethanediyl)], alpha-butyl-omega-hydroxy-	1,950
9043305	Polyethylene glycol monoisotridecyl ether	18
13822565	1-Propanamine, 3-(trimethoxysilyl)-	342
15821837	2-Butoxy-1-Propanol	3,185
19549805	4,6-Dimethyl-2-heptanone	2,652
21564170	Thiocyanic acid (2-benzoathiazolythio)methyl ester	24,354
22984549	Methyltris(ethylmethylketoxime)silane	1,662
24800440	Tripropylene glycol	4
25013154	Vinyl Toluene	1,745
25265718	Dipropylene Glycol	30,556
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	11,065,415
25340174	Diethyl Benzene	1,026
25498491	Tripropylene glycol methyl ether	18,975
25550145	Ethylmethylbenzene	6,914
25551137	Trimethyl Benzene (mixed isomers)	28,286
25707704	1,2-Ethanediamine, N,N'-bis (1,3-dimethylbutylidene)-	28
26183528	Polyethylene glycol monodecyl ether	6
26447143	Cresyl Glycidyl Ether (mixed isomers)	14
27138314	Propanol, oxybis-, dibenzoate	44

CAS #	Ingredient Name	Sales Quantity (lbs)
27646806	2(Methylamino)-2-methyl-1-propanol	4,287
29225910	1,1'-Biphenyl, tris(1-methylethyl)-	5
29911271	Dipropylene Glycol Monopropyl Ether	178,630
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	291,675
34375285	Troysan 174	6,379
34590948	Dipropylene Glycol Methyl Ether	311,408
41593388	Phenoxypropanol	984
51200874	4,4-Dimethyloxazolidine	41,124
51730940	Dipropylene glycol phenyl ether	810
52125538	Propylene Glycol Monoethyl Ether	13
52299204	2((Hydroxymethyl)amino)-iso-butanol	488
56709138	Bicyclic Oxazolidine	164
57018527	Propylene Glycol t-Butyl Ether	767
60864337	Benzyl ether of 1,1,3,3-tetramethylbutylphenoxy polyethoxy ethanol	40
61791535	Amines, N-tallow alkyltrimethylenedi-, oleates	495
64741419	Heavy straight-run naphtha	6,918
64741442	Straight-run middle distillate	367,597
64741657	Petroleum naphtha, heavy alkylate	4,502
64741884	Solvent-refined heavy paraffinic distillate	42,897
64741895	Paraffinic distillate	26,502
64742047	Heavy paraffinic distillate solvent extract	6,917
64742467	Petroleum distillates, hydrotreated middle	1,000
64742478	Distillate(petroleum), hydrotreated light	23,154
64742489	Hydrotreated Heavy Naphtha	117,035
64742490	Naphtha, Petroleum, Hydrotreated Light	1,360
64742525	Hydrotreated heavy naphthenic distillate	51,272
64742536	Hydrotreated light naphthenic distillate	177,452
64742547	Hydrotreated Heavy Paraffinic Distillate	55
64742650	Distillates, petroleum, solvent-dewaxed heavy paraffinic	64
64742821	Hydrodesulfurized Heavy Naphtha	1,670
64742887	Medium Aliphatic Solvent Naphtha	273,160
64742898	VM&P Naphtha	85,754
64742945	Heavy aromatic naphtha solvent	3,053
64742956	Aromatic 100	7,187
64771728	Isoparaffinic hydrocarbons	931
68154643	Fatty Acids	5,605
68410979	Hydrotreated Light Distillate	3,101
68439463	Alcohols, C9-11, ethoxylated	4
68439509	Fatty Alcohols	1
68476302	Fuel oil no. 2	134,535
68476346	Fuel oil no. 2	3,377
68609972	Oxirane, mono ((C12 - 14 - alkyloxy) methyl) derivatives	64
68648873	Benzene, C10-16-alkyl derivs.	386
68956569	Terpenes	28
69009901	1,1'-Biphenyl, bis(1-methylethyl)-	11
70657704	2-Methoxy-1-propanol acetate	17
71195647	Pentanedioic acid, bis(2-methylpropyl) ester	501
83817725	Di (ethylmethylketoxime) methoxy methyl silane	416
84852153	4-Nonylphenol (branched)	1,021

CAS #	Ingredient Name	Sales Quantity (lbs)
88230357	Oxohexyl Acetate	9,122
88917220	Dipropylene Glycol Methyl Ether Acetate	4,175
90438792	Oxo-Heptyl Acetate	70
108419325	Oxo-Octyl Acetate	7
108419358	Oxo-tridecyl Acetate	5,007
111109774	Dipropylene Glycol Dimethyl Ether	7,844
127087870	Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	8,675
	All Coatings VOCs Total (lbs) =	68,701,857
	All Coatings VOCs Total (tons/yr) =	34,351
	All Coatings VOCs Total (tons/day) =	94.1

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

Table 10-5: VOC Ingredients (sorted by CAS#) – Solvent-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
0	Bin 1 Hydrocarbon Solvent	921
0	Bin 2 Hydrocarbon Solvent	280,644
0	Bin 5 Hydrocarbon Solvent	236,978
0	Bin 6 Hydrocarbon Solvent	1,891,109
0	Bin 7 Hydrocarbon Solvent	31,714
0	Bin 9 Hydrocarbon Solvent	502,317
0	Bin 10 Hydrocarbon Solvent	1,803,228
0	Bin 11 Hydrocarbon Solvent	15,653,769
0	Bin 12 Hydrocarbon Solvent	1,037,443
0	Bin 14 Hydrocarbon Solvent	374,896
0	Bin 15 Hydrocarbon Solvent	3,650,207
0	Bin 16 Hydrocarbon Solvent	14,948
0	Bin 21 Hydrocarbon Solvent	11,061
0	Bin 22 Hydrocarbon Solvent	1,477,495
0	Bin 23 Hydrocarbon Solvent	211,292
0	Bin 24 Hydrocarbon Solvent	47,667
0	Fuel Oil	4,135
0	Glycol Ethers	824
0	Mergal 395	196
0	Other Ingredients (<100 Lbs each)	1,940
9981	Aggregated VOCs < 0.1%	101,424
9985	Other VOC	7,397
50000	Formaldehyde	419
56235	Carbon Tetrachloride	110
57556	Propylene Glycol	1,239
64175	Ethanol	814,676
67561	Methanol	27,601
67630	Isopropanol	396,057
71238	n-Propyl Alcohol	269
71363	n-Butanol	110,649
78104	Tetraethyl Orthosilicate	2,085

Table 10-5: VOC Ingredients (sorted by CAS#) – Solvent-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
78831	1-Propanol, 2-Methyl-	183,809
78933	Methyl Ethyl Ketone	95,470
79243	Nitroethane	3,089
88164	Chlorobenzotrifluoride	133
91203	Naphthalene	3,183
95476	Ortho-Xylene	3,992
95636	1,2,4-Trimethylbenzene	234,141
96297	Ethyl methyl ketone oxime	121,470
97858	Isobutyl Isobutyrate	119,202
98000	Furfuryl mercaptan	646
98828	Cumene	6,656
100414	Ethyl Benzene	159,865
100425	Styrene	2,600
100516	Benzyl Alcohol	32,076
103093	2-Ethylhexyl Acetate	177
104767	2-Ethyl-1-Hexanol	678
106423	Para-Xylene	4,485
107153	Ethylenediamine	305
107211	Ethylene Glycol	10,623
107415	2-Methyl-2,4-pentanediol	487
107879	2-Pentanone	21,743
107982	Propylene Glycol Monomethyl Ether	45,963
108032	1-Nitropropane	10,985
108101	Methyl Isobutyl Ketone	98,649
108327	Propylene carbonate	164,924
108383	Meta-Xylene	11,034
108656	Propylene Glycol Monomethyl Ether Acetate	118,744
108678	Mesitylene	47,630
108838	2,6-Dimethyl-4-heptanone	6,566
108883	Toluene	217,375
108930	Cyclohexanol	4,801
108941	Cyclohexanone	1,610
109604	n-Propyl Acetate	2,152
110123	Methyl Isoamyl Ketone	16,413
110190	Isobutyl Acetate	21,764
110430	Methyl-n-Amyl Ketone	470,351
110543	Hexane	173
110918	Morpholine	391
111159	Ethoxyethyl Acetate	330
111400	Diethylene Triamine	716
111762	2-Butoxy Ethanol	303,507
111773	2-(2-methoxyethoxy)ethanol	10,801
112072	Butoxyethyl Acetate, 2-	8,139
112345	2-(2-Butoxyethoxy)ethanol	9,191
119642	1,2,3,4-Tetrahydronaphthalene	2,177
121448	Triethylamine	199
122510	Ethyl orthoformate	3,621
122996	Phenoxyethanol, 2-	114
123422	2-Pentanone, 4-Hydroxy-4-Methyl-	3,504
123546	2,4-Pentanedione	1,879

Table 10-5: VOC Ingredients (sorted by CAS#) – Solvent-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
123864	Butyl Acetate, 1-	810,867
123922	Isopentyl Acetate	610
124174	2-(2-butoxyethoxy)ethyl acetate	17,085
124685	2-Amino-2-methyl-1-propanol	5,829
138863	Limonene	20,450
141786	Ethyl Acetate	3,154
142825	Heptane	1,510
142927	n-Hexyl Acetate	664
149575	2-Ethylhexanoic Acid	886
149735	Trimethoxymethane	2,547
526738	Trimethyl Benzene, 1,2,3-	1,122
540885	tert-Butyl acetate	5,208
590012	Butyl Propionate	8,772
614459	Peroxybenzoic Acid, tert-Butyl Ester	725
627930	Dimethyl adipate	1,117
628637	Amyl Acetate	6,996
694837	1,2-Cyclohexanediamine	398
763699	Ethyl 3-ethoxypropionate	24,581
872504	1-Methyl-2-Pyrrolidinone	679
1119400	Dimethyl glutarate	3,132
1330207	Xylene	1,336,843
1477550	m-Xylene-a,a-diamine	250
1569013	Propylene Glycol Monopropyl Ether	672
2320061	1-phenyl-1-(4-isopropyl-phenyl)-ethane	835
2466673	1-Butanol, 3-methyl-, dihydrogen phosphate	392
2530872	(3-Chloropropyl)trimethoxysilane	541
2807309	2-Propoxyethanol	28,190
2943751	Triethoxyoctylsilane	1,131
4253343	Methyltriacetoxysilane	5,419
4420740	(3-Mercaptopropyl)trimethoxysilane	4,346
5131668	1-Butoxy-2-Propanol	4,079
5989275	D-limonene	12,511
6846500	Propanoic acid, 2-methyl-, 2,2-dimethyl-1-(1-methylethyl)-1,3-propanediyl ester	880
7397628	Butyl glycolate	204
8002093	Pine oil	273
8008206	Kerosene	253,481
8012951	Mineral Oil	47,669
8030306	Naphtha	102
8032324	Petroleum ether	8,364
8052413	Stoddard Solvent	406,911
13822565	1-Propanamine, 3-(trimethoxysilyl)-	342
19549805	4,6-Dimethyl-2-heptanone	2,652
21564170	Thiocyanic acid (2-benzoathiazolythio)methyl ester	24,354
22984549	Methyltris(ethylmethylketoxime)silane	1,662
25013154	Vinyl Toluene	1,745
25265718	Dipropylene Glycol	1,156
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	18,437
25340174	Diethyl Benzene	940
25498491	Tripropylene glycol methyl ether	16,748

Table 10-5: VOC Ingredients (sorted by CAS#) – Solvent-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
25550145	Ethylmethylbenzene	6,909
25551137	Trimethyl Benzene (mixed isomers)	28,258
34590948	Dipropylene Glycol Methyl Ether	4,897
57018527	Propylene Glycol t-Butyl Ether	767
61791535	Amines, N-tallow alkyltrimethylenedi-, oleates	495
64741419	Heavy straight-run naphtha	6,918
64741442	Straight-run middle distillate	357,686
64741657	Petroleum naphtha, heavy alkylate	2,237
64741895	Paraffinic distillate	223
64742047	Heavy paraffinic distillate solvent extract	6,917
64742467	Petroleum distillates, hydrotreated middle	1,000
64742478	Distillate(petroleum), hydrotreated light	22,529
64742489	Hydrotreated Heavy Naphtha	117,035
64742490	Naphtha, Petroleum, Hydrotreated Light	1,360
64742525	Hydrotreated heavy naphthenic distillate	51,157
64742536	Hydrotreated light naphthenic distillate	166,749
64742821	Hydrodesulfurized Heavy Naphtha	1,670
64742887	Medium Aliphatic Solvent Naphtha	273,157
64742898	VM&P Naphtha	85,754
64742945	Heavy aromatic naphtha solvent	2,995
64742956	Aromatic 100	5,626
64771728	Isoparaffinic hydrocarbons	931
68154643	Fatty Acids	5,605
68410979	Hydrotreated Light Distillate	3,101
68476302	Fuel oil no. 2	132,090
68476346	Fuel oil no. 2	3,377
68648873	Benzene, C10-16-alkyl derivs.	386
83817725	Di (ethylmethylketoxime) methoxy methyl silane	416
84852153	4-Nonylphenol (branched)	1,021
88230357	Oxohexyl Acetate	9,094
88917220	Dipropylene Glycol Methyl Ether Acetate	4,119
	Solvent-borne VOCs Subtotal (lbs) =	35,685,187
	Solvent-borne VOCs Subtotal (tons/yr) =	17,843
	Solvent-borne VOCs Subtotal (tons/day) =	48.9

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

Table 10-6: VOC Ingredients (sorted by CAS#) – Water-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
0	Alcohols	2,116
0	Aliphatic Solvent	505
0	Bin 2 Hydrocarbon Solvent	829
0	Bin 6 Hydrocarbon Solvent	19,346
0	Bin 9 Hydrocarbon Solvent	19,037
0	Bin 10 Hydrocarbon Solvent	28,214
0	Bin 11 Hydrocarbon Solvent	353,173
0	Bin 12 Hydrocarbon Solvent	21,437

Table 10-6: VOC Ingredients (sorted by CAS#) – Water-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
0	Bin 14 Hydrocarbon Solvent	20,125
0	Bin 15 Hydrocarbon Solvent	145,102
0	Bin 16 Hydrocarbon Solvent	243
0	Bin 21 Hydrocarbon Solvent	2,934
0	Bin 22 Hydrocarbon Solvent	53,494
0	Bin 23 Hydrocarbon Solvent	23,851
0	Bin 24 Hydrocarbon Solvent	119
0	Biocide	683
0	Glycol Ethers	717
0	Other Ingredients (<100 Lbs each)	1,427
0	Petroleum Distillate	105
0	Petroleum Hydrocarbon	449
0	Preservative	4,337
0	Residual Monomer(s)	8,496
9981	Aggregated VOCs < 0.1%	851,412
9985	Other VOC	7,119
50000	Formaldehyde	896
57556	Propylene Glycol	4,843,073
64175	Ethanol	45,975
64197	Acetic Acid	3,869
67561	Methanol	489,024
67630	Isopropanol	34,035
67685	Dimethylsulfoxide	22,318
71363	n-Butanol	1,781
75070	Acetaldehyde	10,352
75912	Tert-Butyl Hydroperoxide	879
78513	Tri(butyl cellosolve) phosphate	1,352
78831	1-Propanol, 2-Methyl-	106
78922	Butyl Alcohol, Sec-	33,687
79107	Acrylic Acid	119
95636	1,2,4-Trimethylbenzene	23,212
96297	Ethyl methyl ketone oxime	12,232
96480	gamma-Butyrolactone	6,971
100414	Ethyl Benzene	707
100425	Styrene	194
100516	Benzyl Alcohol	3,550
102716	Triethanolamine	422
104687	2-(2-phenoxyethoxy)ethanol	1,136
104767	2-Ethyl-1-Hexanol	1,574
107211	Ethylene Glycol	9,676,449
107222	Glyoxal	348
107982	Propylene Glycol Monomethyl Ether	41,410
108010	n,n-Dimethylethanolamine	6,510
108032	1-Nitropropane	8,360
108656	Propylene Glycol Monomethyl Ether Acetate	2,990
108678	Mesitylene	6,590
108883	Toluene	12,435
108941	Cyclohexanone	1,078
109897	Diethylamine	103
110805	Ethoxyethanol, 2-	104

Table 10-6: VOC Ingredients (sorted by CAS#) – Water-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
110918	Morpholine	1,231
110985	1,1-Oxydi-2-propanol	2,450
111273	Hexanol, N-	519
111466	Diethylene Glycol	192,411
111762	2-Butoxy Ethanol	623,175
111773	2-(2-methoxyethoxy)ethanol	197,852
111900	Ethanol, 2-(2-ethoxyethoxy)	10,089
112072	Butoxyethyl Acetate, 2-	669
112276	Triethylene Glycol	49,033
112345	2-(2-Butoxyethoxy)ethanol	1,558,090
112594	Hexyl Carbitol, N-	1,290
115968	Tris(2-Chloroethyl)Phosphate	1,469
121448	Triethylamine	14,831
122996	Phenoxyethanol, 2-	14,409
123422	2-Pentanone, 4-Hydroxy-4-Methyl-	2,124
123864	Butyl Acetate, 1-	1,077
124174	2-(2-butoxyethoxy)ethyl acetate	28,031
124685	2-Amino-2-methyl-1-propanol	936,427
126738	Tributyl Phosphate	19,834
141048	Hexanedioic Acid, bis(2-methylpropyl) Ester	163
141435	Ethanolamine	1,778
141786	Ethyl Acetate	13,058
143226	Triethylene Glycol Monobutyl Ether	9,625
149575	2-Ethylhexanoic Acid	178
682111	Trimethylolpropane Monoallyl Ether	208
770354	2-Propanol, 1-phenoxy-	17,878
872504	1-Methyl-2-Pyrrolidinone	94,038
919302	1-Propanamine, 3-(triethoxysilyl)	1,567
925064	Butanedioic Acid, bis(2-methylpropyl) Ester	163
1330207	Xylene	17,514
1559359	Ethylene Glycol Mono-2-Ethyl Hexyl Ether	9,174
1559360	Diethylene Glycol Mono-2-Ethyl Hexyl Ether	1,304
1569013	Propylene Glycol Monopropyl Ether	13,244
1760243	n-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine	366
2807309	2-Propoxyethanol	64,562
2943751	Triethoxyoctylsilane	13,354
4719044	Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	11,622
5131668	1-Butoxy-2-Propanol	68,667
5444757	2-Ethylhexyl Benzoate	128,168
8042475	Petroleum Distillates	642
8052413	Stoddard Solvent	1,666
9003138	Poly[oxy(methyl-1,2-ethanediyl)], alpha-butyl-omega-hydroxy-	1,950
15821837	2-Butoxy-1-Propanol	3,185
25265718	Dipropylene Glycol	29,400
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	11,046,978
25498491	Tripropylene glycol methyl ether	2,227
27646806	2(Methylamino)-2-methyl-1-propanol	4,287
29911271	Dipropylene Glycol Monopropyl Ether	178,630
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	291,670
34375285	Troysan 174	6,379

Table 10-6: VOC Ingredients (sorted by CAS#) – Water-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
34590948	Dipropylene Glycol Methyl Ether	306,510
41593388	Phenoxypropanol	984
51200874	4,4-Dimethyloxazolidine	41,124
51730940	Dipropylene glycol phenyl ether	810
52299204	2((Hydroxymethyl)amino)-iso-butanol	488
56709138	Bicyclic Oxazolidine	164
64741442	Straight-run middle distillate	9,911
64741657	Petroleum naphtha, heavy alkylate	2,265
64741884	Solvent-refined heavy paraffinic distillate	42,897
64741895	Paraffinic distillate	26,280
64742478	Distillate(petroleum), hydrotreated light	624
64742525	Hydrotreated heavy naphthenic distillate	116
64742536	Hydrotreated light naphthenic distillate	10,703
64742956	Aromatic 100	1,561
68476302	Fuel oil no. 2	2,445
71195647	Pentanedioic acid, bis(2-methylpropyl) ester	501
108419358	Oxo-tridecyl Acetate	5,007
111109774	Dipropylene Glycol Dimethyl Ether	7,844
127087870	Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	8,669
	Water-borne VOCs Subtotal (lbs) =	33,016,670
	Water-borne VOCs Subtotal (tons/yr) =	16,508
	Water-borne VOCs Subtotal (tons/day) =	45.2

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

Table 10-7: Exempt Compounds (sorted by Weight) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
67641	Acetone	4,165,481
98566	4-chlorobenzotrifluoride	852,692
75092	Methylene Chloride	183,032
127184	Tetrachloroethylene	61,809
556672	Octamethylcyclotetrasiloxane	10,147
79209	Methyl Acetate	9,786
9982	Aggregated Exempt Compounds < 0.1%	2,824
107517	Octamethyltrisiloxane	1,247
541026	Decamethylcyclopentasiloxane	1,130
141628	Decamethyltetrasiloxane	831
69430246	Dimethylcyclosiloxanes, D6 or greater	660
141639	Dodecamethylpentasiloxane	416
17980471	Silane, triethoxy(2-methylpropyl)-	46
	All Coatings Exempts Total (lbs) =	5,290,100
	All Coatings Exempts Total (tons/yr) =	2,645
	All Coatings Exempts Total (tons/day) =	7.2

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

Table 10-8: Exempt Compounds (sorted by Weight) – Solvent-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
67641	Acetone	4,165,129
98566	4-chlorobenzotrifluoride	852,692
75092	Methylene Chloride	183,032
127184	Tetrachloroethylene	61,809
79209	Methyl Acetate	9,786
556672	Octamethylcyclotetrasiloxane	8,437
107517	Octamethyltrisiloxane	1,247
141628	Decamethyltetrasiloxane	831
541026	Decamethylcyclopentasiloxane	807
141639	Dodecamethylpentasiloxane	416
69430246	Dimethylcyclosiloxanes, D6 or greater	125
9982	Aggregated Exempt Compounds < 0.1%	62
17980471	Silane, triethoxy(2-methylpropyl)-	46
	Solvent-borne Exempts Subtotal (lbs) =	5,284,417
	Solvent-borne Exempts Subtotal (tons/yr) =	2,642
	Solvent-borne Exempts Subtotal (tons/day) =	7.2

Notes:

- Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

Table 10-9: Exempt Compounds (sorted by Weight) – Water-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
9982	Aggregated Exempt Compounds < 0.1%	2,762
556672	Octamethylcyclotetrasiloxane	1,710
69430246	Dimethylcyclosiloxanes, D6 or greater	535
67641	Acetone	352
541026	Decamethylcyclopentasiloxane	323
	Water-borne Exempts Subtotal (lbs) =	5,682
	Water-borne Exempts Subtotal (tons/yr) =	3
	Water-borne Exempts Subtotal (tons/day) =	0.0

Notes:

- Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

Table 10-10: Hydrocarbon Solvents Only (sorted by Bin and CAS#) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%
No Bin Reported			
0	Fuel Oil	4,135	
0	Aliphatic Solvent	505	
0	Petroleum Hydrocarbon	449	
0	Petroleum Distillate	105	
0	Saturated Hydrocarbon Distillates	7	
8008206	Kerosene	253,481	

Table 10-10: Hydrocarbon Solvents Only (sorted by Bin and CAS#) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%
8012951	Mineral Oil	47,669	
8030306	Naphtha	102	
8032324	Petroleum ether	8,364	
8042475	Petroleum Distillates	642	
8052413	Stoddard Solvent	408,577	
64741419	Heavy straight-run naphtha	6,918	
64741442	Straight-run middle distillate	367,597	
64741657	Petroleum naphtha, heavy alkylate	4,502	
64741884	Solvent-refined heavy paraffinic distillate	42,897	
64741895	Paraffinic distillate	26,502	
64742047	Heavy paraffinic distillate solvent extract	6,917	
64742467	Petroleum distillates, hydrotreated middle	1,000	
64742478	Distillate(petroleum), hydrotreated light	23,154	
64742489	Hydrotreated Heavy Naphtha	117,035	
64742490	Naphtha, Petroleum, Hydrotreated Light	1,360	
64742525	Hydrotreated heavy naphthenic distillate	51,272	
64742536	Hydrotreated light naphthenic distillate	177,452	
64742547	Hydrotreated Heavy Paraffinic Distillate	55	
64742650	Distillates, petroleum, solvent-dewaxed heavy paraffinic	64	
64742821	Hydrodesulfurized Heavy Naphtha	1,670	
64742887	Medium Aliphatic Solvent Naphtha	273,160	
64742898	VM&P Naphtha	85,754	
64742945	Heavy aromatic naphtha solvent	3,053	
64742956	Aromatic 100	7,187	
64742967	Solvent naphtha, petroleum, heavy aliph.	0	
64771728	Isoparaffinic hydrocarbons	931	
68410979	Hydrotreated Light Distillate	3,101	
68476302	Fuel oil no. 2	134,535	
68476346	Fuel oil no. 2	3,377	
	No Bin Reported Subtotal =	2,063,531	7%
Bin 1			
8052412	Ashland Mineral Spirits 66	921	
64742490	Naphtha, Petroleum, Hydrotreated Light	3	
	Bin 1 Subtotal (MIR 2.08) =	924	0%
Bin 2			
8052413	Stoddard Solvent	279,532	
64742821	Hydrodesulfurized Heavy Naphtha	1,941	
	Bin 2 Subtotal (MIR 1.59) =	281,473	1%
Bin 5			
8032324	Petroleum ether	0	
8052413	Stoddard Solvent	67	
64741419	Heavy straight-run naphtha	63	
64742898	VM&P Naphtha	236,978	
	Bin 5 Subtotal (MIR 2.56) =	237,108	1%
Bin 6			
0	Hydrocarbons	174,653	
0	Petroleum Hydrocarbon	125	
8002059	Petroleum Distillate	30,778	
8030306	Naphtha	2,670	
8032324	Petroleum ether	89,900	

Table 10-10: Hydrocarbon Solvents Only (sorted by Bin and CAS#) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%
8052413	Stoddard Solvent	316,497	
64741657	Petroleum naphtha, heavy alkylate	6,039	
64742478	Distillate(petroleum), hydrotreated light	65,425	
64742489	Hydrotreated Heavy Naphtha	5,849	
64742490	Naphtha, Petroleum, Hydrotreated Light	28,677	
64742525	Hydrotreated heavy naphthenic distillate	18,886	
64742887	Medium Aliphatic Solvent Naphtha	179,522	
64742898	VM&P Naphtha	936,166	
64742945	Heavy aromatic naphtha solvent	8	
64742956	Aromatic 100	50,808	
68920069	Hydrocarbons, C7-C9	4,516	
	Bin 6 Subtotal (MIR 1.41) =	1,910,517	6%
Bin 7			
64741668	Naphtha, Petroleum	3	
64742489	Hydrotreated Heavy Naphtha	31,714	
64742898	VM&P Naphtha	2	
	Bin 7 Subtotal (MIR1.17) =	31,719	0%
Bin 9			
0	Mineral Spirits	16	
8030306	Naphtha	9,050	
8052413	Stoddard Solvent	499,250	
64742490	Naphtha, Petroleum, Hydrotreated Light	13,053	
	Bin 9 Subtotal (MIR 1.62) =	521,370	2%
Bin 10			
8052413	Stoddard Solvent	809,069	
64742478	Distillate(petroleum), hydrotreated light	337	
64742489	Hydrotreated Heavy Naphtha	126	
64742547	Hydrotreated Heavy Paraffinic Distillate	3,142	
64742887	Medium Aliphatic Solvent Naphtha	1,018,111	
64742956	Aromatic 100	366	
68410979	Hydrotreated Light Distillate	317	
	Bin 10 Subtotal (MIR 2.03) =	1,831,467	6%
Bin 11			
0	Mineral Spirits	13,383	
8008206	Kerosene	24,623	
8032324	Petroleum ether	31,133	
8052413	Stoddard Solvent	7,840,463	
64741657	Petroleum naphtha, heavy alkylate	134,161	
64741884	Solvent-refined heavy paraffinic distillate	38	
64742467	Petroleum distillates, hydrotreated middle	6	
64742478	Distillate(petroleum), hydrotreated light	1,004,454	
64742489	Hydrotreated Heavy Naphtha	356,741	
64742490	Naphtha, Petroleum, Hydrotreated Light	0	
64742536	Hydrotreated light naphthenic distillate	805	
64742650	Distillates, petroleum, solvent-dewaxed heavy paraffinic	657	
64742887	Medium Aliphatic Solvent Naphtha	6,308,729	
64742898	VM&P Naphtha	290,706	
64742956	Aromatic 100	1,086	
	Bin 11 Subtotal (MIR 0.91) =	16,006,986	53%

Table 10-10: Hydrocarbon Solvents Only (sorted by Bin and CAS#) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%
Bin 12			
0	Naphtha	35	
0	Petroleum Hydrocarbon	15	
8052413	Stoddard Solvent	562,988	
64741657	Petroleum naphtha, heavy alkylate	2,267	
64742478	Distillate(petroleum), hydrotreated light	341,320	
64742489	Hydrotreated Heavy Naphtha	151,972	
64742887	Medium Aliphatic Solvent Naphtha	349	
	Bin 12 Subtotal (MIR 0.81) =	1,058,946	4%
Bin 13			
64742536	Hydrotreated light naphthenic distillate	11	
	Bin 13 Subtotal (MIR 1.01) =	11	0%
Bin 14			
8052413	Stoddard Solvent	393,269	
64742478	Distillate(petroleum), hydrotreated light	1,395	
64742887	Medium Aliphatic Solvent Naphtha	80	
64742898	VM&P Naphtha	1	
64742945	Heavy aromatic naphtha solvent	357	
64742956	Aromatic 100	5	
	Bin 14 Subtotal (MIR1.21) =	395,107	1%
Bin 15			
8052413	Stoddard Solvent	2,782,388	
64741419	Heavy straight-run naphtha	127,744	
64741657	Petroleum naphtha, heavy alkylate	539,525	
64741895	Paraffinic distillate	10,299	
64742478	Distillate(petroleum), hydrotreated light	317,133	
64742489	Hydrotreated Heavy Naphtha	407	
64742558	Distillates(Petroleum), Hydrotreated Light Paraffinic	1	
64742650	Distillates, petroleum, solvent-dewaxed heavy paraffinic	1,000	
64742821	Hydrodesulfurized Heavy Naphtha	1,450	
64742887	Medium Aliphatic Solvent Naphtha	9,040	
64742898	VM&P Naphtha	10	
64742945	Heavy aromatic naphtha solvent	94	
64742956	Aromatic 100	6,325	
	Bin 15 Subtotal (MIR 1.82) =	3,795,417	13%
Bin 16			
64742467	Petroleum distillates, hydrotreated middle	1,455	
64742478	Distillate(petroleum), hydrotreated light	13,736	
64742525	Hydrotreated heavy naphthenic distillate	2	
	Bin 16 Subtotal (MIR 0.57) =	15,193	0%
Bin 21			
64742898	VM&P Naphtha	757	
64742945	Heavy aromatic naphtha solvent	2,934	
64742956	Aromatic 100	10,304	
	Bin 21 Subtotal (MIR 7.37) =	13,995	0%
Bin 22			
8052413	Stoddard Solvent	19,183	
64742478	Distillate(petroleum), hydrotreated light	189	
64742898	VM&P Naphtha	673	
64742945	Heavy aromatic naphtha solvent	9,979	

Table 10-10: Hydrocarbon Solvents Only (sorted by Bin and CAS#) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%
64742956	Aromatic 100	1,501,004	
	Bin 22 Subtotal (MIR 7.51) =	1,531,029	5%
Bin 23			
0	Petroleum Distillate	46	
64742525	Hydrotreated heavy naphthenic distillate	35	
64742945	Heavy aromatic naphtha solvent	99,269	
64742956	Aromatic 100	135,931	
70693060	Aromatic Hydrocarbons, C9-11	2	
	Bin 23 Subtotal (MIR 8.07) =	235,284	1%
Bin 24			
64742887	Medium Aliphatic Solvent Naphtha	37,069	
64742945	Heavy aromatic naphtha solvent	10,718	
	Bin 24 Subtotal (MIR 5.00) =	47,787	0%
	All Coatings Hydrocarbons Subtotal (lbs) =	29,977,864	
	All Coatings Hydrocarbons Subtotal (tons/yr) =	14,989	
	All Coatings Hydrocarbons Subtotal (tons/day) =	41.1	

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.

Table 10-11: Hydrocarbon Solvents Only (sorted by Weight) – Solvent-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
0	Bin 11 Hydrocarbon Solvent	15,653,769
0	Bin 15 Hydrocarbon Solvent	3,650,207
0	Bin 6 Hydrocarbon Solvent	1,891,109
0	Bin 10 Hydrocarbon Solvent	1,803,228
0	Bin 22 Hydrocarbon Solvent	1,477,495
0	Bin 12 Hydrocarbon Solvent	1,037,443
0	Bin 9 Hydrocarbon Solvent	502,317
8052413	Stoddard Solvent	406,911
0	Bin 14 Hydrocarbon Solvent	374,896
64741442	Straight-run middle distillate	357,686
0	Bin 2 Hydrocarbon Solvent	280,644
64742887	Medium Aliphatic Solvent Naphtha	273,157
8008206	Kerosene	253,481
0	Bin 5 Hydrocarbon Solvent	236,978
0	Bin 23 Hydrocarbon Solvent	211,292
64742536	Hydrotreated light naphthenic distillate	166,749
68476302	Fuel oil no. 2	132,090
64742489	Hydrotreated Heavy Naphtha	117,035
64742898	VM&P Naphtha	85,754
64742525	Hydrotreated heavy naphthenic distillate	51,157
8012951	Mineral Oil	47,669
0	Bin 24 Hydrocarbon Solvent	47,667
0	Bin 7 Hydrocarbon Solvent	31,714
64742478	Distillate(petroleum), hydrotreated light	22,529
0	Bin 16 Hydrocarbon Solvent	14,948
0	Bin 21 Hydrocarbon Solvent	11,061

Table 10-11: Hydrocarbon Solvents Only (sorted by Weight) – Solvent-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
8032324	Petroleum ether	8,364
64741419	Heavy straight-run naphtha	6,918
64742047	Heavy paraffinic distillate solvent extract	6,917
64742956	Aromatic 100	5,626
0	Fuel Oil	4,135
68476346	Fuel oil no. 2	3,377
68410979	Hydrotreated Light Distillate	3,101
64742945	Heavy aromatic naphtha solvent	2,995
64741657	Petroleum naphtha, heavy alkylate	2,237
64742821	Hydrodesulfurized Heavy Naphtha	1,670
64742490	Naphtha, Petroleum, Hydrotreated Light	1,360
64742467	Petroleum distillates, hydrotreated middle	1,000
64771728	Isoparaffinic hydrocarbons	931
0	Bin 1 Hydrocarbon Solvent	921
0	Other Ingredients (<100 Lbs each)	497
64741895	Paraffinic distillate	223
8030306	Naphtha	102
Solvent-borne Hydrocarbons Subtotal (lbs) =		29,189,361
Solvent-borne Hydrocarbons Subtotal (tons/yr) =		14,595
Solvent-borne Hydrocarbons Subtotal (tons/day) =		40.0

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.
2. "Other Ingredients (<100 Lbs each)" is the sum of all hydrocarbon solvents that were reported in quantities of 100 pounds or less.

Table 10-12: Hydrocarbon Solvents Only (sorted by Weight) – Water-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
0	Bin 11 Hydrocarbon Solvent	353,173
0	Bin 15 Hydrocarbon Solvent	145,102
0	Bin 22 Hydrocarbon Solvent	53,494
64741884	Solvent-refined heavy paraffinic distillate	42,897
0	Bin 10 Hydrocarbon Solvent	28,214
64741895	Paraffinic distillate	26,280
0	Bin 23 Hydrocarbon Solvent	23,851
0	Bin 12 Hydrocarbon Solvent	21,437
0	Bin 14 Hydrocarbon Solvent	20,125
0	Bin 6 Hydrocarbon Solvent	19,346
0	Bin 9 Hydrocarbon Solvent	19,037
64742536	Hydrotreated light naphthenic distillate	10,703
64741442	Straight-run middle distillate	9,911
0	Bin 21 Hydrocarbon Solvent	2,934
68476302	Fuel oil no. 2	2,445
64741657	Petroleum naphtha, heavy alkylate	2,265
8052413	Stoddard Solvent	1,666
64742956	Aromatic 100	1,561
0	Bin 2 Hydrocarbon Solvent	829
8042475	Petroleum Distillates	642

Table 10-12: Hydrocarbon Solvents Only (sorted by Weight) – Water-borne Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)
64742478	Distillate(petroleum), hydrotreated light	624
0	Aliphatic Solvent	505
0	Petroleum Hydrocarbon	449
0	Other Ingredients (<100 Lbs each)	430
0	Bin 16 Hydrocarbon Solvent	243
0	Bin 24 Hydrocarbon Solvent	119
64742525	Hydrotreated heavy naphthenic distillate	116
0	Petroleum Distillate	105
	Water-borne Hydrocarbons Subtotal (lbs) =	788,502
	Water-borne Hydrocarbons Subtotal (tons/yr) =	394
	Water-borne Hydrocarbons Subtotal (tons/day) =	1.1

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.
2. "Other Ingredients (<100 Lbs each)" is the sum of all hydrocarbon solvents that were reported in quantities of 100 pounds or less.

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
Bituminous Roof - Solventborne				
	Bin 15 Hydrocarbon Solvent	384,380	85%	85%
	Bin 22 Hydrocarbon Solvent	61,970	14%	99%
	Other Ingredients	6,364	1%	100%
	Subtotal:	452,714		
Bituminous Roof - Waterborne				
57556	Propylene Glycol	17,038	89%	89%
	Other Ingredients	2,160	11%	100%
	Subtotal:	19,198		
Bituminous Roof Primer - Solventborne				
	Bin 15 Hydrocarbon Solvent	80,214	48%	48%
	Bin 6 Hydrocarbon Solvent	43,343	26%	73%
	Bin 14 Hydrocarbon Solvent	21,281	13%	86%
	Bin 22 Hydrocarbon Solvent	12,620	7%	93%
	Other Ingredients	11,055	7%	100%
	Subtotal:	168,514		
Bituminous Roof Primer - Waterborne				
1569013	Propylene Glycol Monopropyl Ether	4,733	100%	100%
	Other Ingredients	19	0%	100%
	Subtotal:	4,752		
Concrete Curing Compounds - Solventborne				
	Bin 22 Hydrocarbon Solvent	58,744	66%	66%
	Bin 15 Hydrocarbon Solvent	11,324	13%	78%
	Bin 11 Hydrocarbon Solvent	8,364	9%	88%
67641	Acetone	6,968	8%	95%
	Other Ingredients	4,145	5%	100%
	Subtotal:	89,543		

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
Concrete Curing Compounds - Waterborne				
	Bin 15 Hydrocarbon Solvent	101,247	41%	41%
111762	2-Butoxy Ethanol	78,955	32%	72%
	Bin 22 Hydrocarbon Solvent	17,403	7%	79%
9981	Aggregated VOCs < 0.1%	16,284	7%	86%
107211	Ethylene Glycol	10,407	4%	90%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	10,070	4%	94%
64741442	Straight-run middle distillate	4,219	2%	96%
	Other Ingredients	10,134	4%	100%
	Subtotal:	248,719		
Dry Fog - Solventborne				
	Bin 5 Hydrocarbon Solvent	220,033	44%	44%
	Bin 6 Hydrocarbon Solvent	91,043	18%	63%
	Bin 11 Hydrocarbon Solvent	66,124	13%	76%
64742489	Hydrotreated Heavy Naphtha	40,942	8%	84%
	Bin 10 Hydrocarbon Solvent	17,931	4%	88%
	Bin 9 Hydrocarbon Solvent	13,557	3%	90%
	Bin 15 Hydrocarbon Solvent	13,077	3%	93%
1330207	Xylene	9,279	2%	95%
	Other Ingredients	25,072	5%	100%
	Subtotal:	497,057		
Dry Fog - Waterborne				
	Bin 11 Hydrocarbon Solvent	29,791	32%	32%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	14,214	15%	48%
67630	Isopropanol	12,599	14%	61%
	Bin 6 Hydrocarbon Solvent	12,261	13%	74%
64175	Ethanol	10,845	12%	86%
111762	2-Butoxy Ethanol	3,700	4%	90%
9981	Aggregated VOCs < 0.1%	2,707	3%	93%
1330207	Xylene	1,599	2%	95%
	Other Ingredients	4,722	5%	100%
	Subtotal:	92,440		
Faux Finishing - Solventborne				
	Bin 11 Hydrocarbon Solvent	10,373	71%	71%
	Bin 9 Hydrocarbon Solvent	2,536	17%	89%
64741657	Petroleum naphtha, heavy alkylate	808	6%	94%
1330207	Xylene	345	2%	97%
	Other Ingredients	490	3%	100%
	Subtotal:	14,551		
Faux Finishing - Waterborne				
57556	Propylene Glycol	96,403	41%	41%
107211	Ethylene Glycol	67,149	29%	70%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	37,130	16%	85%
	Bin 11 Hydrocarbon Solvent	10,055	4%	90%
111466	Diethylene Glycol	9,847	4%	94%
124685	2-Amino-2-methyl-1-propanol	4,722	2%	96%
	Other Ingredients	9,472	4%	100%
	Subtotal:	234,777		

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
Flat - Solventborne				
1330207	Xylene	9,567	82%	82%
	Bin 11 Hydrocarbon Solvent	445	4%	86%
	Bin 6 Hydrocarbon Solvent	327	3%	89%
110430	Methyl-n-Amyl Ketone	279	2%	91%
8052413	Stoddard Solvent	229	2%	93%
67641	Acetone	224	2%	95%
	Other Ingredients	548	5%	100%
	Subtotal:	11,618		
Flat - Waterborne				
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	4,719,478	47%	47%
107211	Ethylene Glycol	2,543,951	25%	73%
57556	Propylene Glycol	1,339,947	13%	86%
124685	2-Amino-2-methyl-1-propanol	444,866	4%	91%
9981	Aggregated VOCs < 0.1%	323,919	3%	94%
112345	2-(2-Butoxyethoxy)ethanol	295,506	3%	97%
	Other Ingredients	320,021	3%	100%
	Subtotal:	9,987,687		
Floor – Solventborne				
	Bin 22 Hydrocarbon Solvent	84,369	44%	44%
	Bin 15 Hydrocarbon Solvent	29,975	16%	60%
1330207	Xylene	18,970	10%	70%
	Bin 11 Hydrocarbon Solvent	18,250	10%	79%
108883	Toluene	8,757	5%	84%
108656	Propylene Glycol Monomethyl Ether Acetate	7,523	4%	88%
	Bin 9 Hydrocarbon Solvent	5,224	3%	90%
98566	4-chlorobenzotrifluoride	4,878	3%	93%
71363	n-Butanol	2,839	1%	95%
	Other Ingredients	10,510	5%	100%
	Subtotal:	191,295		
Floor – Waterborne				
29911271	Dipropylene Glycol Monopropyl Ether	174,494	37%	37%
107211	Ethylene Glycol	69,030	15%	52%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	60,896	13%	65%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	32,393	7%	71%
57556	Propylene Glycol	28,316	6%	77%
111762	2-Butoxy Ethanol	27,809	6%	83%
112345	2-(2-Butoxyethoxy)ethanol	17,550	4%	87%
2807309	2-Propoxyethanol	14,941	3%	90%
9981	Aggregated VOCs < 0.1%	13,531	3%	93%
34590948	Dipropylene Glycol Methyl Ether	9,243	2%	95%
	Other Ingredients	23,662	5%	100%
	Subtotal:	471,865		
Form Release Compounds - Solventborne				
64741442	Straight-run middle distillate	357,686	61%	61%
68476302	Fuel oil no. 2	131,864	23%	84%
8012951	Mineral Oil	46,711	8%	92%
	Bin 15 Hydrocarbon Solvent	12,861	2%	94%
64742536	Hydrotreated light naphthenic distillate	12,462	2%	96%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
	Other Ingredients	21,917	4%	100%
	Subtotal:	583,501		
Form Release Compounds - Waterborne				
64741442	Straight-run middle distillate	5,692	59%	59%
68476302	Fuel oil no. 2	2,445	25%	84%
25498491	Tripropylene glycol methyl ether	631	7%	91%
64742536	Hydrotreated light naphthenic distillate	501	5%	96%
	Other Ingredients	370	4%	100%
	Subtotal:	9,639		
High Temperature - Solventborne				
	Bin 11 Hydrocarbon Solvent	16,329	33%	33%
98566	4-chlorobenzotrifluoride	12,154	24%	57%
1330207	Xylene	5,175	10%	67%
110430	Methyl-n-Amyl Ketone	4,632	9%	76%
	Bin 6 Hydrocarbon Solvent	3,411	7%	83%
67641	Acetone	2,789	6%	89%
	Bin 23 Hydrocarbon Solvent	1,676	3%	92%
100516	Benzyl Alcohol	1,101	2%	94%
78933	Methyl Ethyl Ketone	514	1%	95%
	Other Ingredients	2,318	5%	100%
	Subtotal:	50,100		
Industrial Maintenance - Solventborne				
1330207	Xylene	487,069	18%	18%
	Bin 11 Hydrocarbon Solvent	428,167	16%	34%
110430	Methyl-n-Amyl Ketone	159,290	6%	40%
	Bin 14 Hydrocarbon Solvent	155,973	6%	46%
	Bin 22 Hydrocarbon Solvent	141,697	5%	51%
123864	Butyl Acetate, 1-	120,499	4%	55%
	Bin 15 Hydrocarbon Solvent	109,017	4%	59%
	Bin 10 Hydrocarbon Solvent	96,828	4%	63%
	Bin 12 Hydrocarbon Solvent	91,080	3%	66%
95636	1,2,4-Trimethylbenzene	83,801	3%	70%
108101	Methyl Isobutyl Ketone	79,691	3%	73%
100414	Ethyl Benzene	71,341	3%	75%
	Bin 6 Hydrocarbon Solvent	69,175	3%	78%
	Bin 23 Hydrocarbon Solvent	64,992	2%	80%
98566	4-chlorobenzotrifluoride	43,755	2%	82%
108656	Propylene Glycol Monomethyl Ether Acetate	39,500	1%	83%
71363	n-Butanol	32,203	1%	84%
108883	Toluene	29,937	1%	86%
107982	Propylene Glycol Monomethyl Ether	29,266	1%	87%
100516	Benzyl Alcohol	29,153	1%	88%
78933	Methyl Ethyl Ketone	29,018	1%	89%
67641	Acetone	28,112	1%	90%
	Bin 9 Hydrocarbon Solvent	27,476	1%	91%
67630	Isopropanol	19,604	1%	92%
9981	Aggregated VOCs < 0.1%	17,842	1%	92%
8052413	Stoddard Solvent	17,044	1%	93%
763699	Ethyl 3-ethoxypropionate	15,556	1%	93%
108678	Mesitylene	14,711	1%	94%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
64175	Ethanol	12,160	0%	94%
111762	2-Butoxy Ethanol	11,799	0%	95%
	Other Ingredients	138,123	5%	100%
	Subtotal:	2,693,878		
Industrial Maintenance - Waterborne				
111762	2-Butoxy Ethanol	89,747	20%	20%
111773	2-(2-methoxyethoxy)ethanol	65,672	15%	35%
112345	2-(2-Butoxyethoxy)ethanol	44,083	10%	45%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	43,560	10%	55%
2807309	2-Propoxyethanol	27,598	6%	61%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	27,362	6%	67%
57556	Propylene Glycol	25,705	6%	73%
78922	Butyl Alcohol, Sec-	17,457	4%	77%
107211	Ethylene Glycol	11,568	3%	79%
	Bin 10 Hydrocarbon Solvent	10,811	2%	82%
34590948	Dipropylene Glycol Methyl Ether	8,076	2%	84%
9981	Aggregated VOCs < 0.1%	6,593	1%	85%
5131668	1-Butoxy-2-Propanol	6,337	1%	86%
1559359	Ethylene Glycol Mono-2-Ethyl Hexyl Ether	5,880	1%	88%
107982	Propylene Glycol Monomethyl Ether	5,648	1%	89%
108419358	Oxo-tridecyl Acetate	4,463	1%	90%
67630	Isopropanol	3,719	1%	91%
770354	2-Propanol, 1-phenoxy-	3,359	1%	92%
1569013	Propylene Glycol Monopropyl Ether	2,777	1%	92%
64175	Ethanol	2,689	1%	93%
	Bin 23 Hydrocarbon Solvent	2,486	1%	93%
108656	Propylene Glycol Monomethyl Ether Acetate	2,177	0%	94%
	Bin 11 Hydrocarbon Solvent	1,957	0%	94%
9003138	Poly[oxy(methyl-1,2-ethanediyl)], alpha-butyl-omega-hydroxy-	1,950	0%	95%
	Other Ingredients	23,021	5%	100%
	Subtotal:	444,694		
Lacquers - Solventborne				
67641	Acetone	2,932,964	56%	56%
123864	Butyl Acetate, 1-	637,396	12%	68%
67630	Isopropanol	227,892	4%	73%
110430	Methyl-n-Amyl Ketone	219,258	4%	77%
111762	2-Butoxy Ethanol	204,794	4%	81%
78831	1-Propanol, 2-Methyl-	176,079	3%	84%
1330207	Xylene	131,447	3%	87%
108883	Toluene	120,393	2%	89%
	Bin 11 Hydrocarbon Solvent	95,882	2%	91%
	Bin 6 Hydrocarbon Solvent	86,644	2%	93%
78933	Methyl Ethyl Ketone	46,714	1%	94%
97858	Isobutyl Isobutyrate	39,638	1%	94%
98566	4-chlorobenzotrifluoride	38,055	1%	95%
	Other Ingredients	257,685	5%	100%
	Subtotal:	5,214,838		

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
Lacquers - Waterborne				
111762	2-Butoxy Ethanol	42,148	23%	23%
64175	Ethanol	21,064	11%	34%
34590948	Dipropylene Glycol Methyl Ether	17,745	10%	44%
872504	1-Methyl-2-Pyrrolidinone	17,525	9%	53%
5131668	1-Butoxy-2-Propanol	16,251	9%	62%
112345	2-(2-Butoxyethoxy)ethanol	14,183	8%	69%
107982	Propylene Glycol Monomethyl Ether	11,826	6%	76%
107211	Ethylene Glycol	11,178	6%	82%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	8,062	4%	86%
57556	Propylene Glycol	5,458	3%	89%
	Bin 22 Hydrocarbon Solvent	4,330	2%	91%
95636	1,2,4-Trimethylbenzene	3,561	2%	93%
9981	Aggregated VOCs < 0.1%	3,083	2%	95%
	Other Ingredients	9,234	5%	100%
	Subtotal:	185,648		
Low Solids - Waterborne				
	Bin 11 Hydrocarbon Solvent	13,574	42%	42%
107211	Ethylene Glycol	6,458	20%	62%
111762	2-Butoxy Ethanol	3,662	11%	73%
34590948	Dipropylene Glycol Methyl Ether	1,781	5%	78%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	1,561	5%	83%
872504	1-Methyl-2-Pyrrolidinone	1,425	4%	88%
9981	Aggregated VOCs < 0.1%	1,147	4%	91%
57556	Propylene Glycol	541	2%	93%
121448	Triethylamine	468	1%	94%
2943751	Triethoxyoctylsilane	458	1%	96%
	Other Ingredients	1,420	4%	100%
	Subtotal:	32,494		
Metallic Pigmented - Solventborne				
	Bin 15 Hydrocarbon Solvent	972,712	63%	63%
	Bin 22 Hydrocarbon Solvent	235,406	15%	78%
	Bin 6 Hydrocarbon Solvent	150,922	10%	88%
	Bin 11 Hydrocarbon Solvent	87,990	6%	94%
1330207	Xylene	22,381	1%	95%
	Other Ingredients	77,397	5%	100%
	Subtotal:	1,546,808		
Metallic Pigmented -Waterborne				
	Bin 15 Hydrocarbon Solvent	9,686	32%	32%
108032	1-Nitropropane	8,339	28%	60%
4719044	Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	2,703	9%	69%
57556	Propylene Glycol	2,667	9%	77%
111773	2-(2-methoxyethoxy)ethanol	2,306	8%	85%
5131668	1-Butoxy-2-Propanol	1,011	3%	88%
1559359	Ethylene Glycol Mono-2-Ethyl Hexyl Ether	718	2%	91%
	Bin 22 Hydrocarbon Solvent	576	2%	93%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	523	2%	94%
67630	Isopropanol	441	1%	96%
	Other Ingredients	1,259	4%	100%
	Subtotal:	30,229		

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
Nonflat - High Gloss - Solventborne				
	Bin 11 Hydrocarbon Solvent	85,018	69%	69%
	Bin 9 Hydrocarbon Solvent	9,640	8%	77%
8052413	Stoddard Solvent	7,702	6%	83%
1330207	Xylene	3,656	3%	86%
	Bin 15 Hydrocarbon Solvent	3,140	3%	88%
64742489	Hydrotreated Heavy Naphtha	2,735	2%	91%
	Bin 10 Hydrocarbon Solvent	2,651	2%	93%
9981	Aggregated VOCs < 0.1%	1,504	1%	94%
107982	Propylene Glycol Monomethyl Ether	993	1%	95%
	Other Ingredients	6,520	5%	100%
	Subtotal:	123,559		
Nonflat - High Gloss - Waterborne				
107211	Ethylene Glycol	253,796	30%	30%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	244,431	29%	59%
57556	Propylene Glycol	127,434	15%	74%
5444757	2-Ethylhexyl Benzoate	123,592	15%	89%
124685	2-Amino-2-methyl-1-propanol	38,403	5%	93%
112345	2-(2-Butoxyethoxy)ethanol	25,438	3%	96%
	Other Ingredients	33,416	4%	100%
	Subtotal:	846,510		
Nonflat - Low Gloss - Solventborne				
	Bin 11 Hydrocarbon Solvent	10,092	78%	78%
	Bin 10 Hydrocarbon Solvent	1,294	10%	88%
	Bin 12 Hydrocarbon Solvent	409	3%	92%
	Bin 9 Hydrocarbon Solvent	320	2%	94%
1330207	Xylene	275	2%	96%
	Other Ingredients	497	4%	100%
	Subtotal:	12,888		
Nonflat - Low Gloss - Waterborne				
107211	Ethylene Glycol	1,904,446	40%	40%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	1,413,118	29%	69%
57556	Propylene Glycol	679,561	14%	83%
112345	2-(2-Butoxyethoxy)ethanol	217,857	5%	88%
9981	Aggregated VOCs < 0.1%	156,384	3%	91%
124685	2-Amino-2-methyl-1-propanol	109,630	2%	94%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	73,474	2%	95%
	Other Ingredients	236,315	5%	100%
	Subtotal:	4,790,785		
Nonflat - Medium Gloss – Solventborne				
	Bin 11 Hydrocarbon Solvent	159,726	67%	67%
	Bin 15 Hydrocarbon Solvent	40,243	17%	83%
	Bin 9 Hydrocarbon Solvent	20,007	8%	92%
8052413	Stoddard Solvent	3,077	1%	93%
	Bin 10 Hydrocarbon Solvent	2,883	1%	94%
1330207	Xylene	2,312	1%	95%
	Other Ingredients	11,379	5%	100%
	Subtotal:	239,626		

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
Nonflat - Medium Gloss - Waterborne				
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	2,800,082	34%	34%
107211	Ethylene Glycol	2,416,315	29%	63%
57556	Propylene Glycol	1,968,474	24%	87%
112345	2-(2-Butoxyethoxy)ethanol	607,091	7%	94%
9981	Aggregated VOCs < 0.1%	194,463	2%	96%
	Other Ingredients	312,853	4%	100%
	Subtotal:	8,299,277		
Other – Solventborne				
1330207	Xylene	3,732	33%	33%
108883	Toluene	1,580	14%	47%
123864	Butyl Acetate, 1-	1,347	12%	58%
78933	Methyl Ethyl Ketone	931	8%	67%
71363	n-Butanol	884	8%	74%
100414	Ethyl Benzene	726	6%	81%
	Bin 22 Hydrocarbon Solvent	677	6%	87%
67641	Acetone	652	6%	92%
	Bin 10 Hydrocarbon Solvent	353	3%	96%
	Other Ingredients	507	4%	100%
	Subtotal:	11,389		
Other – Waterborne				
64175	Ethanol	1,252	38%	38%
9981	Aggregated VOCs < 0.1%	586	18%	55%
111900	Ethanol, 2-(2-ethoxyethoxy)	399	12%	67%
770354	2-Propanol, 1-phenoxy-	222	7%	74%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	213	6%	80%
112345	2-(2-Butoxyethoxy)ethanol	194	6%	86%
872504	1-Methyl-2-Pyrrolidinone	163	5%	91%
67630	Isopropanol	157	5%	96%
	Other Ingredients	144	4%	100%
	Subtotal:	3,331		
Pre-Treatment Wash Primer - Solventborne				
78933	Methyl Ethyl Ketone	1,672	25%	25%
67630	Isopropanol	1,565	23%	48%
108101	Methyl Isobutyl Ketone	1,373	21%	69%
71363	n-Butanol	937	14%	83%
123422	2-Pentanone, 4-Hydroxy-4-Methyl-	507	8%	91%
78831	1-Propanol, 2-Methyl-	429	6%	97%
	Other Ingredients	204	3%	100%
	Subtotal:	6,688		
Pre-Treatment Wash Primer - Waterborne				
111762	2-Butoxy Ethanol	1,376	79%	79%
64175	Ethanol	328	19%	98%
	Other Ingredients	40	2%	100%
	Subtotal:	1,744		
Primer, Sealer, and Undercoater - Solventborne				
	Bin 11 Hydrocarbon Solvent	586,443	72%	72%
	Bin 6 Hydrocarbon Solvent	47,900	6%	78%
67641	Acetone	36,387	4%	82%
	Bin 12 Hydrocarbon Solvent	19,105	2%	85%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
1330207	Xylene	12,805	2%	86%
	Bin 10 Hydrocarbon Solvent	10,738	1%	88%
64742898	VM&P Naphtha	9,417	1%	89%
127184	Tetrachloroethylene	9,322	1%	90%
	Bin 7 Hydrocarbon Solvent	8,565	1%	91%
	Bin 22 Hydrocarbon Solvent	8,430	1%	92%
8052413	Stoddard Solvent	8,130	1%	93%
64742478	Distillate(petroleum), hydrotreated light	7,715	1%	94%
123864	Butyl Acetate, 1-	6,782	1%	95%
	Other Ingredients	41,328	5%	100%
	Subtotal:	813,066		
Primer, Sealer, and Undercoater - Waterborne				
107211	Ethylene Glycol	1,892,272	48%	48%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	1,216,731	31%	79%
57556	Propylene Glycol	245,762	6%	85%
124685	2-Amino-2-methyl-1-propanol	177,334	5%	90%
112345	2-(2-Butoxyethoxy)ethanol	154,911	4%	94%
9981	Aggregated VOCs < 0.1%	50,960	1%	95%
	Other Ingredients	195,567	5%	100%
	Subtotal:	3,933,537		
Quick Dry Enamel -Solventborne				
	Bin 11 Hydrocarbon Solvent	1,703,563	73%	73%
	Bin 10 Hydrocarbon Solvent	251,012	11%	84%
	Bin 12 Hydrocarbon Solvent	165,370	7%	91%
	Bin 15 Hydrocarbon Solvent	43,398	2%	93%
1330207	Xylene	35,361	2%	94%
	Bin 6 Hydrocarbon Solvent	34,588	1%	96%
	Other Ingredients	99,496	4%	100%
	Subtotal:	2,332,787		
Quick Dry Enamel - Waterborne				
111762	2-Butoxy Ethanol	33,682	78%	78%
112345	2-(2-Butoxyethoxy)ethanol	3,082	7%	86%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	3,012	7%	93%
107211	Ethylene Glycol	1,325	3%	96%
	Other Ingredients	1,856	4%	100%
	Subtotal:	42,956		
Quick Dry Primer, Sealer, and Undercoater - Solventborne				
	Bin 6 Hydrocarbon Solvent	443,049	55%	55%
	Bin 11 Hydrocarbon Solvent	252,166	31%	86%
67641	Acetone	31,453	4%	90%
8052413	Stoddard Solvent	18,218	2%	92%
1330207	Xylene	13,042	2%	94%
98566	4-chlorobenzotrifluoride	8,226	1%	95%
	Other Ingredients	39,196	5%	100%
	Subtotal:	805,351		
Quick Dry Primer, Sealer, and Undercoater - Waterborne				
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	2,389	39%	39%
111762	2-Butoxy Ethanol	2,210	36%	75%
51200874	4,4-Dimethyloxazolidine	623	10%	86%
9981	Aggregated VOCs < 0.1%	324	5%	91%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
57556	Propylene Glycol	221	4%	95%
	Other Ingredients	330	5%	100%
	Subtotal:	6,096		
Recycled -Waterborne				
9981	Aggregated VOCs < 0.1%	6,904	41%	41%
9985	Other VOC	6,562	39%	80%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	1,701	10%	90%
	Other Ingredients	1,668	10%	100%
	Subtotal:	16,835		
Roof – Solventborne				
	Bin 6 Hydrocarbon Solvent	51,968	57%	57%
	Bin 22 Hydrocarbon Solvent	9,685	11%	67%
96297	Ethyl methyl ketone oxime	5,576	6%	73%
	Bin 15 Hydrocarbon Solvent	4,660	5%	78%
98566	4-chlorobenzotrifluoride	2,794	3%	81%
124174	2-(2-butoxyethoxy)ethyl acetate	2,401	3%	84%
95636	1,2,4-Trimethylbenzene	2,383	3%	86%
1330207	Xylene	1,724	2%	88%
22984549	Methyltris(ethylmethylketoxime)silane	1,662	2%	90%
107517	Octamethyltrisiloxane	1,247	1%	91%
5989275	D-limonene	1,175	1%	93%
84852153	4-Nonylphenol (branched)	853	1%	94%
141628	Decamethyltetrasiloxane	831	1%	95%
	Other Ingredients	5,003	5%	100%
	Subtotal:	91,961		
Roof – Waterborne				
107211	Ethylene Glycol	83,729	40%	40%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	78,178	37%	77%
57556	Propylene Glycol	19,224	9%	87%
9981	Aggregated VOCs < 0.1%	11,925	6%	92%
34375285	Troysan 174	4,143	2%	94%
112345	2-(2-Butoxyethoxy)ethanol	1,689	1%	95%
	Other Ingredients	10,383	5%	100%
	Subtotal:	209,272		
Rust Preventative - Solventborne				
	Bin 11 Hydrocarbon Solvent	2,820,609	45%	45%
	Bin 10 Hydrocarbon Solvent	1,362,976	22%	66%
	Bin 15 Hydrocarbon Solvent	884,398	14%	80%
	Bin 12 Hydrocarbon Solvent	264,434	4%	85%
	Bin 9 Hydrocarbon Solvent	238,715	4%	88%
1330207	Xylene	183,661	3%	91%
	Bin 6 Hydrocarbon Solvent	115,492	2%	93%
	Bin 14 Hydrocarbon Solvent	104,278	2%	95%
	Other Ingredients	328,659	5%	100%
	Subtotal:	6,303,223		
Rust Preventative - Waterborne				
111762	2-Butoxy Ethanol	23,543	37%	37%
78922	Butyl Alcohol, Sec-	11,920	19%	55%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	7,880	12%	68%
9981	Aggregated VOCs < 0.1%	3,986	6%	74%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	3,745	6%	80%
57556	Propylene Glycol	3,361	5%	85%
111773	2-(2-methoxyethoxy)ethanol	2,562	4%	89%
67561	Methanol	2,307	4%	93%
112345	2-(2-Butoxyethoxy)ethanol	1,583	2%	95%
	Other Ingredients	3,202	5%	100%
	Subtotal:	64,088		
Sanding Sealers - Solventborne				
	Bin 11 Hydrocarbon Solvent	73,371	44%	44%
	Bin 15 Hydrocarbon Solvent	63,273	38%	82%
	Bin 6 Hydrocarbon Solvent	7,965	5%	87%
64175	Ethanol	5,060	3%	90%
1330207	Xylene	4,798	3%	93%
71363	n-Butanol	3,171	2%	95%
	Other Ingredients	8,114	5%	100%
	Subtotal:	165,752		
Sanding Sealers - Waterborne				
34590948	Dipropylene Glycol Methyl Ether	3,578	34%	34%
111900	Ethanol, 2-(2-ethoxyethoxy)	2,457	23%	57%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	1,111	11%	68%
111773	2-(2-methoxyethoxy)ethanol	850	8%	76%
57556	Propylene Glycol	751	7%	83%
71195647	Pentanedioic acid, bis(2-methylpropyl) ester	501	5%	88%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	389	4%	91%
9981	Aggregated VOCs < 0.1%	223	2%	93%
107211	Ethylene Glycol	194	2%	95%
	Other Ingredients	501	5%	100%
	Subtotal:	10,555		
Specialty Primer, Sealer, and Undercoater - Solventborne				
	Bin 11 Hydrocarbon Solvent	3,188,217	76%	76%
	Bin 22 Hydrocarbon Solvent	447,429	11%	87%
	Bin 15 Hydrocarbon Solvent	150,914	4%	90%
	Bin 6 Hydrocarbon Solvent	125,584	3%	93%
	Bin 9 Hydrocarbon Solvent	106,560	3%	96%
	Other Ingredients	176,604	4%	100%
	Subtotal:	4,195,307		
Specialty Primer, Sealer, and Undercoater - Waterborne				
112345	2-(2-Butoxyethoxy)ethanol	67,656	45%	45%
107211	Ethylene Glycol	23,510	15%	60%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	21,128	14%	74%
111762	2-Butoxy Ethanol	11,414	8%	82%
9981	Aggregated VOCs < 0.1%	8,347	6%	87%
57556	Propylene Glycol	6,210	4%	91%
	Bin 15 Hydrocarbon Solvent	4,607	3%	94%
124685	2-Amino-2-methyl-1-propanol	1,856	1%	95%
	Other Ingredients	6,966	5%	100%
	Subtotal:	151,694		
Stains - Clear/Semitransparent - Solventborne				
	Bin 11 Hydrocarbon Solvent	2,738,966	61%	61%
	Bin 15 Hydrocarbon Solvent	301,280	7%	67%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
8052413	Stoddard Solvent	246,241	5%	73%
8008206	Kerosene	230,535	5%	78%
64742887	Medium Aliphatic Solvent Naphtha	229,334	5%	83%
98566	4-chlorobenzotrifluoride	227,190	5%	88%
	Bin 12 Hydrocarbon Solvent	110,624	2%	91%
1330207	Xylene	66,011	1%	92%
	Bin 6 Hydrocarbon Solvent	65,947	1%	94%
64742489	Hydrotreated Heavy Naphtha	64,920	1%	95%
	Other Ingredients	227,884	5%	100%
	Subtotal:	4,508,933		
Stains - Clear/Semitransparent - Waterborne				
	Bin 11 Hydrocarbon Solvent	87,426	37%	37%
57556	Propylene Glycol	43,520	18%	55%
34590948	Dipropylene Glycol Methyl Ether	28,205	12%	67%
107211	Ethylene Glycol	16,589	7%	74%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	15,336	6%	81%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	11,277	5%	86%
112345	2-(2-Butoxyethoxy)ethanol	9,724	4%	90%
2807309	2-Propoxyethanol	7,204	3%	93%
111762	2-Butoxy Ethanol	3,682	2%	94%
9981	Aggregated VOCs < 0.1%	3,409	1%	96%
	Other Ingredients	10,056	4%	100%
	Subtotal:	236,428		
Stains - Opaque - Solventborne				
	Bin 15 Hydrocarbon Solvent	20,269	35%	35%
	Bin 11 Hydrocarbon Solvent	11,060	19%	54%
98566	4-chlorobenzotrifluoride	9,152	16%	69%
8052413	Stoddard Solvent	7,017	12%	81%
	Bin 9 Hydrocarbon Solvent	2,707	5%	86%
	Bin 10 Hydrocarbon Solvent	2,604	4%	90%
1330207	Xylene	2,475	4%	94%
95636	1,2,4-Trimethylbenzene	489	1%	95%
	Other Ingredients	2,737	5%	100%
	Subtotal:	58,509		
Stains - Opaque - Waterborne				
107211	Ethylene Glycol	156,712	52%	52%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	67,819	23%	75%
57556	Propylene Glycol	28,232	9%	85%
	Bin 11 Hydrocarbon Solvent	14,454	5%	89%
124685	2-Amino-2-methyl-1-propanol	6,412	2%	92%
9981	Aggregated VOCs < 0.1%	4,982	2%	93%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	4,514	2%	95%
	Other Ingredients	15,915	5%	100%
	Subtotal:	299,038		
Traffic Marking - Solventborne				
67641	Acetone	594,242	59%	59%
75092	Methylene Chloride	182,782	18%	78%
1330207	Xylene	177,576	18%	95%
	Other Ingredients	45,885	5%	100%
	Subtotal:	1,000,485		

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
Traffic Marking - Waterborne				
67561	Methanol	475,741	50%	50%
111762	2-Butoxy Ethanol	215,077	23%	73%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	201,520	21%	94%
57556	Propylene Glycol	18,144	2%	96%
	Other Ingredients	36,639	4%	100%
	Subtotal:	947,121		
Varnishes - Clear - Solventborne				
	Bin 11 Hydrocarbon Solvent	2,023,261	76%	76%
	Bin 15 Hydrocarbon Solvent	300,854	11%	87%
	Bin 12 Hydrocarbon Solvent	69,666	3%	90%
	Bin 14 Hydrocarbon Solvent	61,978	2%	92%
2807309	2-Propoxyethanol	26,386	1%	93%
	Bin 9 Hydrocarbon Solvent	22,529	1%	94%
1330207	Xylene	21,068	1%	95%
	Other Ingredients	145,182	5%	100%
	Subtotal:	2,670,924		
Varnishes - Clear - Waterborne				
872504	1-Methyl-2-Pyrrolidinone	62,424	29%	29%
34590948	Dipropylene Glycol Methyl Ether	55,586	26%	55%
107982	Propylene Glycol Monomethyl Ether	23,346	11%	66%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	20,978	10%	76%
111109774	Dipropylene Glycol Dimethyl Ether	7,844	4%	79%
96480	gamma-Butyrolactone	6,971	3%	83%
57556	Propylene Glycol	6,853	3%	86%
121448	Triethylamine	5,019	2%	88%
107211	Ethylene Glycol	3,678	2%	90%
29911271	Dipropylene Glycol Monopropyl Ether	3,247	2%	91%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	3,238	2%	93%
100516	Benzyl Alcohol	2,788	1%	94%
111900	Ethanol, 2-(2-ethoxyethoxy)	2,750	1%	96%
	Other Ingredients	9,557	4%	100%
	Subtotal:	214,280		
Varnishes - Semitransparent - Solventborne				
	Bin 12 Hydrocarbon Solvent	193,535	61%	61%
	Bin 11 Hydrocarbon Solvent	113,094	36%	97%
	Other Ingredients	9,363	3%	100%
	Subtotal:	315,993		
Varnishes - Semitransparent - Waterborne				
	Bin 11 Hydrocarbon Solvent	4,796	65%	65%
107211	Ethylene Glycol	1,127	15%	80%
9981	Aggregated VOCs < 0.1%	670	9%	90%
57556	Propylene Glycol	579	8%	97%
	Other Ingredients	192	3%	100%
	Subtotal:	7,363		
Waterproofing Concrete/Masonry Sealers - Solventborne				
	Bin 6 Hydrocarbon Solvent	474,525	21%	21%
98566	4-chlorobenzotrifluoride	422,547	18%	39%
67641	Acetone	405,080	18%	56%
	Bin 22 Hydrocarbon Solvent	255,790	11%	67%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
108327	Propylene carbonate	159,099	7%	74%
64742536	Hydrotreated light naphthenic distillate	154,287	7%	81%
108656	Propylene Glycol Monomethyl Ether Acetate	58,892	3%	84%
	Bin 11 Hydrocarbon Solvent	58,350	3%	86%
95636	1,2,4-Trimethylbenzene	40,087	2%	88%
	Bin 24 Hydrocarbon Solvent	37,069	2%	89%
64742898	VM&P Naphtha	30,026	1%	91%
108883	Toluene	25,178	1%	92%
1330207	Xylene	24,775	1%	93%
	Bin 15 Hydrocarbon Solvent	23,613	1%	94%
	Bin 7 Hydrocarbon Solvent	22,807	1%	95%
	Other Ingredients	119,112	5%	100%
	Subtotal:	2,311,236		
Waterproofing Concrete/Masonry Sealers -Waterborne				
111773	2-(2-methoxyethoxy)ethanol	72,187	26%	26%
107211	Ethylene Glycol	59,258	22%	48%
112345	2-(2-Butoxyethoxy)ethanol	26,860	10%	58%
111762	2-Butoxy Ethanol	23,321	8%	66%
57556	Propylene Glycol	17,621	6%	73%
5131668	1-Butoxy-2-Propanol	12,346	4%	77%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	11,084	4%	81%
2807309	2-Propoxyethanol	10,057	4%	85%
2943751	Triethoxyoctylsilane	7,510	3%	87%
	Bin 10 Hydrocarbon Solvent	3,885	1%	89%
29911282	2-Propanol, 1-(2-butoxy-1-methylethoxy)-	3,664	1%	90%
124685	2-Amino-2-methyl-1-propanol	3,617	1%	92%
770354	2-Propanol, 1-phenoxy-	2,786	1%	93%
9981	Aggregated VOCs < 0.1%	2,484	1%	93%
112276	Triethylene Glycol	2,104	1%	94%
1569013	Propylene Glycol Monopropyl Ether	1,943	1%	95%
	Other Ingredients	13,948	5%	100%
	Subtotal:	274,674		
Waterproofing Sealers -Solventborne				
	Bin 11 Hydrocarbon Solvent	333,234	40%	40%
	Bin 15 Hydrocarbon Solvent	128,890	15%	55%
67641	Acetone	59,462	7%	62%
	Bin 22 Hydrocarbon Solvent	58,762	7%	69%
98566	4-chlorobenzotrifluoride	55,912	7%	76%
64742525	Hydrotreated heavy naphthenic distillate	45,761	5%	81%
127184	Tetrachloroethylene	44,376	5%	87%
95636	1,2,4-Trimethylbenzene	31,826	4%	91%
	Bin 23 Hydrocarbon Solvent	29,152	3%	94%
1330207	Xylene	11,908	1%	95%
	Other Ingredients	38,174	5%	100%
	Subtotal:	837,457		
Waterproofing Sealers -Waterborne				
34590948	Dipropylene Glycol Methyl Ether	134,203	24%	24%
	Bin 11 Hydrocarbon Solvent	109,494	20%	44%
107211	Ethylene Glycol	93,133	17%	60%
112345	2-(2-Butoxyethoxy)ethanol	59,044	11%	71%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	33,537	6%	77%
111762	2-Butoxy Ethanol	20,546	4%	80%
	Bin 14 Hydrocarbon Solvent	19,209	3%	84%
111773	2-(2-methoxyethoxy)ethanol	16,780	3%	87%
5131668	1-Butoxy-2-Propanol	12,015	2%	89%
96297	Ethyl methyl ketone oxime	9,483	2%	91%
9981	Aggregated VOCs < 0.1%	8,261	1%	92%
127087870	Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched	7,683	1%	94%
872504	1-Methyl-2-Pyrrolidinone	6,602	1%	95%
	Other Ingredients	29,050	5%	100%
	Subtotal:	559,041		
Wood Preservatives -Solventborne				
	Bin 2 Hydrocarbon Solvent	278,703	62%	62%
	Bin 11 Hydrocarbon Solvent	81,383	18%	81%
	Bin 15 Hydrocarbon Solvent	42,838	10%	90%
8052413	Stoddard Solvent	34,622	8%	98%
	Other Ingredients	9,349	2%	100%
	Subtotal:	446,894		
Wood Preservatives -Waterborne				
141435	Ethanolamine	1,200	36%	36%
	Bin 11 Hydrocarbon Solvent	1,086	32%	68%
	Bin 2 Hydrocarbon Solvent	829	25%	93%
107211	Ethylene Glycol	136	4%	97%
	Other Ingredients	116	3%	100%
	Subtotal:	3,367		
Protected Categories - Solventborne				
64175	Ethanol	724,002	33%	33%
	Bin 11 Hydrocarbon Solvent	680,534	31%	64%
67630	Isopropanol	132,370	6%	70%
	Bin 12 Hydrocarbon Solvent	104,295	5%	74%
97858	Isobutyl Isobutyrate	79,256	4%	78%
1330207	Xylene	76,804	3%	82%
110430	Methyl-n-Amyl Ketone	66,134	3%	85%
111762	2-Butoxy Ethanol	65,053	3%	88%
67641	Acetone	56,112	3%	90%
	Bin 6 Hydrocarbon Solvent	55,223	3%	93%
	Bin 23 Hydrocarbon Solvent	39,099	2%	94%
71363	n-Butanol	37,136	2%	96%
	Other Ingredients	87,141	4%	100%
	Subtotal:	2,203,159		
Protected Categories – Waterborne				
57556	Propylene Glycol	156,701	46%	46%
107211	Ethylene Glycol	37,926	11%	57%
25265774	2,2,4-Trimethyl-1,3-Pentanediol Isobutyrate	35,623	10%	67%
124685	2-Amino-2-methyl-1-propanol	25,035	7%	75%
	Bin 15 Hydrocarbon Solvent	20,079	6%	80%
141786	Ethyl Acetate	13,058	4%	84%
108883	Toluene	10,202	3%	87%
64742536	Hydrotreated light naphthenic distillate	10,202	3%	90%

Table 10-13: Ingredient Listing by Category (VOCs & EXEMPTS) – All Coatings

CAS #	Ingredient Name	Sales Quantity (lbs)	%	Cumulative %
9981	Aggregated VOCs < 0.1%	10,047	3%	93%
	Bin 22 Hydrocarbon Solvent	9,057	3%	96%
	Other Ingredients	14,288	4%	100%
	Subtotal:	342,218		
All Categories Ingredient Total (lbs) =		73,991,957		
All Categories Ingredient Total (tons/yr) =		36,996		
All Categories Ingredient Total (tons/day) =		101		

Notes:

1. Sales of exempt small containers (1 quart or less) were included when calculating ingredient quantities.
2. Ingredients include VOCs, exempt compounds, and hydrocarbon solvents.
3. All coating categories that had protected sales data were combined under “Protected Categories”. Protected data means that fewer than three companies reported sales.

Chapter 11 -- Survey Comparisons

This section compares, where possible, the data from ARB's 2001 survey (2000 sales) with the 2005 survey (2004 sales). Data in this chapter include sales of small containers (1 quart or less.)

As shown in Table 11-1, the percent change in sales volume from 2000 to 2004 represents an annual growth rate of approximately 3%. This increase appears to be consistent with industry reports of sales growth for architectural coatings.

The list of major companies remains relatively constant from survey to survey and these companies report the majority of the sales volume. In the 2005 survey, we received responses from approximately 70 new companies who accounted for approximately 4 million gallons. In addition, approximately 50 previous participants, who accounted for about 9 million gallons in 2001, did not respond for the following reasons:

- they no longer had California sales;
- they no longer manufactured architectural coatings; or
- they were purchased by a larger company who reported for them.

The 5 million gallon difference between the 50 previous responders and the 70 new responders was more than made up for by the roughly 130 repeating companies that consistently participate in the survey.

Table 11-2 provides a comparison between the 2001 survey and the 2005 survey, sorted by category. For most coating categories, it was possible to make a direct comparison. However, in some cases, it was not possible to make a direct comparison because data were not available for both survey years. If it was not possible to make a comparison, the category was not listed in Table 11-2. In some categories, there were significant changes in sales volume and emissions. Table 11-3 summarizes the primary reasons for these changes. Tables 11-4 and 11-5 contain comparisons between the 2001 survey and the 2005 survey, for solvent-borne and water-borne coatings, respectively. Tables 11-6 through 11-8 provide historical survey comparisons for all of the architectural coating surveys conducted by ARB since 1975.

This chapter includes the following data summaries:

Table 11-1: *Summary Comparison Between 2001 and 2005 Surveys*

Table 11-2: *Detailed Comparison of 2001 and 2005 Surveys - Total*

Table 11-3: *Reasons for Significant Changes in Sales Volumes*

Table 11-4: *Detailed Comparison of 2001 and 2005 Surveys – Solvent-borne*

Table 11-5: *Detailed Comparison of 2001 and 2005 Surveys – Water-borne*

Table 11-6: *Summary of All ARB Architectural Coating Surveys – Sales Data*

Table 11-7: *Summary of All ARB Architectural Coating Surveys – Emissions Data*

Table 11-8: *Summary of All ARB Architectural Coating Surveys – Emission Factors*

Table 11-1: Summary Comparison Between 2001 and 2005 Surveys

	2001 Survey (2000 Sales, including quarts)	2005 Survey (2004 Sales, including quarts)	Percent Change
COATING SALES VOLUME DATA			
Total Sales Volume Reported (gallons)	98,455,172	110,676,675	12%
Water-borne Coating Sales Volume	81,548,961	97,365,588	19%
Solvent-borne Coating Sales Volume	16,906,211	13,311,087	-21%
Percent Water-borne Sales	83%	88%	
Percent Solvent-borne Sales	17%	12%	
Coating Sales Volume Per Capita (gals per person)	2.9	3.1	
EMISSIONS DATA – COATINGS ONLY			
Total Coating Emissions (tons/day)	110	95	-13%
Water-borne Coating Emissions	45.5	45.7	0%
Solvent-borne Coating Emissions	64.2	49.5	-23%
Percent Water-borne Emissions	41%	48%	
Percent Solvent-borne Emissions	59%	52%	
Emissions per capita (lbs VOC emitted per person)	2.4	1.9	
Emission Factor - Coatings Only (lb VOC/gal)	0.81	0.63	-23%
Water-borne Coating Emission Factor	0.41	0.34	-16%
Solvent-borne Coating Emission Factor	2.77	2.71	-2%
EMISSIONS DATA – COATINGS, SOLVENTS & ADDITIVES			
Grand Total Emissions (tons/day)	128	119	-7%
Water-borne Coating Emissions	45.5	45.7	0%
Solvent-borne Coating Emissions	64.2	49.5	-23%
Thinning/Cleanup/Additive Emissions	18.5	24.3	31%
Percent Water-borne Emissions	35%	38%	
Percent Solvent-borne Emissions	50%	41%	
Percent Thinning/Cleanup/Additive Emissions	14%	20%	
Emissions per capita (lbs VOC emitted per person)	2.8	2.4	
Emission Factor with Thinning/Cleanup/Additives (lb VOC/gal coating)	0.95	0.79	-17%

Notes:

- For the 2001 Survey, VOC emissions totals included emissions from:
 - thinning solvents added to solventborne coatings; and
 - cleanup solvents used for solventborne coatings only.
- For the 2005 Survey, VOC emissions totals included emissions from:
 - (1) thinning solvents added to solventborne coatings;
 - (2) cleanup solvents used for both solventborne and waterborne coatings; and
 - (3) additives in waterborne coatings.
- CA Population in 2000 = 33,871,648 people
- CA Population in 2004 = 35,893,799 people (6% increase compared to 2000)
- Emissions data is on an “Annual Average” basis.

Table 11-2: Detailed Comparison of 2001 and 2005 Surveys - Total

Coating Category	Sales Volume (gallons)			VOC Emissions (tons per year)			Sales-Weighted Average VOC Regulatory (g/l)			Sales-Weighted % by Volume Solids		
	2001	2005	% change	2001	2005	% change	2001	2005	% change	2001	2005	% change
Bituminous Roof	3,245,397	1,554,703	-52%	1,579	235	-85%	120	38	-69%	59	51	-13%
Bituminous Roof Primer	170,520	68,092	-60%	133	88	-34%	211	324	54%	55	56	2%
Bond Breakers	93,896	187,785	100%	25	62	148%	244	302	24%	14	18	22%
Clear Brushing Lacquer	PD	PD	PD	193	232	20%	667	666	0%	19	19	0%
Concrete Curing Compounds	692,419	891,471	29%	135	177	31%	145	166	14%	22	17	-23%
Dry Fog	459,756	377,707	-18%	400	298	-26%	258	233	-10%	41	42	1%
Faux Finishing	173,737	303,810	75%	79	125	60%	261	257	-2%	28	29	3%
Fire Resistive	PD	12,510	PD	0	6	4867%	45	124	177%	51	57	13%
Fire Retardant - Clear	PD	PD	PD	0	2	17212%	4	531	13838%	30	39	29%
Fire Retardant - Opaque	29,055	195,197	572%	6	262	4101%	94	325	245%	41	54	33%
Flat	34,810,257	37,270,680	7%	5,693	5,038	-11%	96	82	-15%	36	36	0%
Floor	1,425,064	1,392,290	-2%	318	302	-5%	101	104	4%	60	41	-32%
Form Release Compounds	255,724	323,612	27%	223	292	31%	213	233	9%	67	65	-4%
Graphic Arts	26,389	PD	PD	26	6	-78%	274	350	28%	43	48	11%
High Temperature	18,632	11,736	-37%	30	18	-40%	401	407	2%	49	43	-12%
Industrial Maintenance	4,740,079	2,084,212	-56%	5,637	1,542	-73%	298	209	-30%	58	61	6%
Lacquers	447,352	1,296,323	190%	912	1,326	45%	567	456	-20%	23	25	6%
Low Solids	13,413	65,680	390%	3	16	400%	59	60	2%	8	9	14%
Magnesite Cement	PD	PD	PD	42	33	-21%	443	446	1%	34	33	-3%
Mastic Texture	628,590	812,614	29%	248	209	-15%	133	98	-26%	52	52	0%
Metallic Pigmented	625,944	651,012	4%	1,027	790	-23%	409	301	-26%	42	55	31%
Multi-Color	7,580	13,635	80%	3	2	-36%	227	103	-55%	22	23	2%
Nonflat - High Gloss	1,926,436	1,705,656	-11%	1,332	488	-63%	244	156	-36%	42	35	-16%
Nonflat - Low Gloss	6,594,890	12,031,898	82%	1,479	2,425	64%	129	118	-8%	36	35	-1%
Nonflat - Medium Gloss	18,102,739	20,125,660	11%	5,686	4,283	-25%	171	128	-25%	34	34	-2%
Other	1,510,316	91,301	-94%	8	9	18%	1	65	4601%	35	19	-44%
Pre-Treatment Wash Primer	75,342	5,652	-92%	36	4	-88%	252	275	9%	31	19	-38%
Primer, Sealer, and Undercoater	8,125,823	10,405,708	28%	3,120	2,389	-23%	155	128	-17%	39	34	-14%
Quick Dry Enamel	623,666	762,284	22%	909	1,178	30%	358	380	6%	51	49	-5%

Table 11-2: Detailed Comparison of 2001 and 2005 Surveys - Total

Coating Category	Sales Volume (gallons)			VOC Emissions (tons per year)			Sales-Weighted Average VOC Regulatory (g/l)			Sales-Weighted % by Volume Solids		
	2001	2005	% change	2001	2005	% change	2001	2005	% change	2001	2005	% change
Quick Dry Primer, Sealer, and Undercoater	1,660,227	264,083	-84%	2,367	388	-84%	364	361	-1%	41	42	2%
Recycled	323,216	223,381	-31%	0	0		204	193	-6%	33	41	25%
Roof	1,137,354	1,420,706	25%	209	146	-30%	68	46	-33%	47	45	-5%
Rust Preventative	209,899	2,094,585	898%	274	3,171	1059%	339	369	9%	50	51	3%
Sanding Sealers	28,268	59,969	112%	50	88	76%	471	399	-15%	29	30	3%
Shellacs - Clear	PD	PD	PD	39	128	230%	600	617	3%	23	21	-9%
Shellacs - Opaque	PD	PD	PD	184	297	62%	538	521	-3%	30	31	4%
Specialty Primer, Sealer, and Undercoater	376,521	2,019,995	436%	112	2,260	1917%	120	281	135%	46	51	13%
Stains - Clear/Semitransparent	2,171,595	1,866,719	-14%	2,870	2,283	-20%	349	338	-3%	43	45	4%
Stains - Opaque	1,087,373	951,777	-12%	498	174	-65%	180	106	-41%	37	36	-3%
Swimming Pool	22,086	7,852	-64%	20	7	-66%	274	250	-9%	50	57	15%
Swimming Pool Repair and Maintenance	15,266	PD	PD	36	5	-85%	573	588	3%	34	35	1%
Traffic Marking	3,338,918	2,214,451	-34%	1,108	609	-45%	116	101	-13%	62	57	-8%
Varnishes - Clear	1,087,860	972,285	-11%	1,470	1,433	-3%	375	397	6%	39	38	-3%
Varnishes - Semitransparent	61,505	94,937	54%	108	162	50%	431	422	-2%	42	42	0%
Waterproofing Concrete/Masonry Sealers	707,921	1,523,467	115%	474	859	81%	209	206	-2%	41	50	23%
Waterproofing Sealers	1,017,611	1,626,644	60%	699	633	-9%	251	187	-26%	38	31	-19%
Wood Preservatives	177,444	173,846	-2%	249	226	-10%	345	325	-6%	54	57	7%

Notes:

1. PD = Protected Data. Fewer than three companies reported sales.
2. Sales volumes contained in this table include sales of small containers (1 quart or less).

ARB staff investigated the causes for significant changes between the sales volume data from 2001 and 2005 for some of the major categories, as summarized in Table 11-3.

Table 11-3: Reasons for Significant Changes in Sales Volumes

Coating Category	Change	Major Reasons for Changes in Sales Volumes
Bituminous Roof	Significant Decrease	<ul style="list-style-type: none"> • Quality control was improved and adhesives/cements were removed from survey responses. • Sales decreased.
Fire Retardant – Opaque	Very Significant Increase	<ul style="list-style-type: none"> • It appears that a small number of companies repositioned Quick Dry Enamel or Industrial Maintenance alkyd coatings as Fire Retardant coatings.
Industrial Maintenance	Significant Decrease	<ul style="list-style-type: none"> • Companies re-classified Industrial Maintenance coatings as Rust Preventative and Waterproofing Concrete/Masonry Sealers. This was expected to occur as new categories were introduced. • Sales decreased.
Lacquers	Significant Increase	<ul style="list-style-type: none"> • New products were introduced. • New companies and divisions submitted survey data.
Nonflat – Low Gloss	Significant Increase	<ul style="list-style-type: none"> • Sales increased, most likely due to shift in lower gloss demand in market. • New products were introduced.
Quick Dry Primer, Sealer, Undercoater	Significant Decrease	<ul style="list-style-type: none"> • Companies re-classified Quick Dry PSUs as Specialty PSUs, Rust Preventative, and regular PSUs. This was expected to occur as new categories were introduced.
Rust Preventative	Very Significant Increase	<ul style="list-style-type: none"> • Companies re-classified Industrial Maintenance coatings as Rust Preventative coatings. This was expected to occur as new categories were introduced. • New products were introduced.
Specialty Primer, Sealer, Undercoater	Very Significant Increase	<ul style="list-style-type: none"> • Companies re-classified Quick Dry PSUs as Specialty PSUs. This was expected to occur as new categories were introduced. • New products were introduced.
Waterproofing Concrete/Masonry Sealer	Significant Increase	<ul style="list-style-type: none"> • Sales increased. • New products were introduced. • Companies re-classified Industrial Maintenance coatings as Waterproofing Concrete/Masonry Sealers. This was expected to occur as new categories were introduced.
Waterproofing Sealers	Significant Increase	<ul style="list-style-type: none"> • New products were introduced. • Sales increased.

Table 11-4: Detailed Comparison of 2001 and 2005 Surveys – Solvent-borne

Coating Category	Sales Volume (gallons)			VOC Emissions (tons per year)			Sales-Weighted Average VOC Regulatory (g/l)			Sales-Weighted % by Volume Solids		
	2001	2005	% change	2001	2005	% change	2001	2005	% change	2001	2005	% change
Bituminous Roof	1,608,033	225,764	-86%	1,570	225	-86%	240	240	0%	70	70	-1%
Bituminous Roof Primer	69,993	59,968	-14%	114	85	-25%	391	346	-12%	56	59	6%
Bond Breakers	NA	PD	PD	NA	3		NA	717		NA	11	
Clear Brushing Lacquer	PD	PD	PD	193	232	20%	667	666	0%	19	19	0%
Concrete Curing Compounds	32,395	43,771	35%	30	41	38%	350	344	-2%	39	25	-36%
Dry Fog	243,047	187,112	-23%	311	250	-20%	346	361	4%	45	46	3%
Faux Finishing	6,948	4,430	-36%	12	7	-38%	404	392	-3%	47	45	-4%
Fire Resistive	PD	PD	PD	0	6			283		0	75	
Fire Retardant - Clear	PD	PD	PD	0	2			531		0	39	
Fire Retardant - Opaque	2,365	PD	PD	3	261	10239%	257	347	35%	70	55	-21%
Flat	11,952	4,142	-65%	18	6	-69%	373	333	-11%	51	61	19%
Floor	149,939	168,212	12%	87	107	24%	139	153	10%	82	82	0%
Form Release Compounds	223,634	284,655	27%	221	287	30%	238	243	2%	74	71	-4%
Graphic Arts	13,667	PD	PD	24	6	-76%	413	383	-7%	48	50	4%
High Temperature	18,621	11,736	-37%	30	18	-40%	401	407	2%	49	43	-12%
Industrial Maintenance	4,126,134	1,391,172	-66%	5,407	1,304	-76%	315	227	-28%	60	72	21%
Lacquers	374,503	942,732	152%	876	1,233	41%	622	571	-8%	22	22	-2%
Low Solids	NA	NA		NA	NA		NA	NA		NA	NA	
Magnesite Cement	PD	PD	PD	42	33	-21%	443	446	1%	34	33	-3%
Mastic Texture	210,143	PD	PD	165	96	-42%	229	248	8%	49	53	7%
Metallic Pigmented	513,541	518,414	1%	1,003	774	-23%	469	359	-24%	44	60	35%
Multi-Color	63	PD	PD	0	0	299%	526	551	5%	19	16	-13%
Nonflat - High Gloss	596,788	41,929	-93%	833	63	-92%	338	363	7%	57	53	-6%
Nonflat - Low Gloss	24,525	3,856	-84%	38	6	-83%	372	402	8%	52	48	-8%
Nonflat - Medium Gloss	567,173	77,344	-86%	772	120	-84%	329	372	13%	57	54	-6%
Other	15,971	2,576	-84%	8	5	-30%	117	520	345%	86	35	-59%
Pre-Treatment Wash Primer	4,188	1,082	-74%	9	3	-61%	486	747	54%	37	8	-79%
Primer, Sealer, and Undercoater	1,369,924	261,172	-81%	1,886	394	-79%	339	370	9%	52	51	-1%
Quick Dry Enamel	607,372	712,214	17%	902	1,155	28%	361	390	8%	52	50	-3%

Table 11-4: Detailed Comparison of 2001 and 2005 Surveys – Solvent-borne

Coating Category	Sales Volume (gallons)			VOC Emissions (tons per year)			Sales-Weighted Average VOC Regulatory (g/l)			Sales-Weighted % by Volume Solids		
	2001	2005	% change	2001	2005	% change	2001	2005	% change	2001	2005	% change
Quick Dry Primer, Sealer, and Undercoater	1,259,524	226,057	-82%	2,271	385	-83%	434	414	-5%	43	43	0%
Recycled	NA	NA		NA	NA		NA	NA		NA	NA	
Roof	89,448	44,101	-51%	78	43	-44%	211	239	13%	75	70	-6%
Rust Preventative	166,748	2,007,468	1104%	263	3,139	1092%	381	376	-1%	52	52	0%
Sanding Sealers	20,452	36,659	79%	47	83	74%	557	542	-3%	30	31	2%
Shellacs - Clear	PD	PD	PD	39	128	230%	600	617	3%	23	21	-9%
Shellacs - Opaque	PD	PD	PD	184	297	62%	538	521	-3%	30	31	4%
Specialty Primer, Sealer, and Undercoater	21,461	1,518,613	6976%	36	2,173	5971%	400	343	-14%	48	55	15%
Stains - Clear/Semitransparent	1,690,513	1,458,981	-14%	2,725	2,164	-21%	387	366	-6%	49	52	7%
Stains - Opaque	224,925	20,627	-91%	309	25	-92%	331	300	-9%	56	58	5%
Swimming Pool	12,399	PD	PD	17	5	-67%	321	267	-17%	62	68	10%
Swimming Pool Repair and Maintenance	15,266	PD	PD	36	5	-85%	573	588	3%	34	35	1%
Traffic Marking	799,677	329,369	-59%	273	132	-52%	103	147	43%	74	55	-26%
Varnishes - Clear	715,117	696,005	-3%	1,286	1,327	3%	432	458	6%	45	42	-6%
Varnishes - Semitransparent	58,300	86,302	48%	107	158	48%	439	439	0%	43	43	1%
Waterproofing Concrete/Masonry Sealers	225,227	841,448	274%	374	696	86%	426	247	-42%	43	63	49%
Waterproofing Sealers	442,989	309,312	-30%	601	339	-44%	342	281	-18%	57	58	2%
Wood Preservatives	166,982	164,236	-2%	248	224	-10%	356	327	-8%	56	60	7%

Notes:

1. NA = Not Applicable. No solvent-borne sales were reported for this category.
2. PD = Protected Data. Fewer than three companies reported sales.
3. Sales volumes contained in this table include sales of small containers (1 quart or less).

Table 11-5: Detailed Comparison of 2001 and 2005 Surveys – Water-borne

Coating Category	Sales Volume (gallons)			VOC Emissions (tons per year)			Sales-Weighted Average VOC Regulatory (g/l)			Sales-Weighted % by Volume Solids		
	2001	2005	% change	2001	2005	% change	2001	2005	% change	2001	2005	% change
Bituminous Roof	1,637,364	1,328,939	-19%	9	11	16%	2	3	35%	48	48	0%
Bituminous Roof Primer	100,527	8,124	-92%	19	2	-88%	85	167	95%	55	35	-35%
Bond Breakers	93,896	PD	PD	25	59	136%	244	300	23%	14	18	23%
Clear Brushing Lacquer	NA	NA		NA	NA		NA	NA		NA	NA	
Concrete Curing Compounds	660,024	847,700	28%	106	136	29%	135	156	16%	21	16	-21%
Dry Fog	216,709	190,595	-12%	90	48	-47%	160	107	-33%	38	38	0%
Faux Finishing	166,789	299,379	79%	67	118	77%	255	255	0%	28	29	5%
Fire Resistive	PD	PD	PD	0	0	112%	45	18	-60%	51	46	-10%
Fire Retardant - Clear	PD	PD	PD	0	0	-100%	4			30	0	-100%
Fire Retardant - Opaque	26,690	PD	PD	4	1	-74%	80	44	-45%	38	34	-9%
Flat	34,798,306	37,266,538	7%	5,674	5,032	-11%	96	82	-15%	36	36	0%
Floor	1,275,125	1,224,078	-4%	232	195	-16%	96	98	2%	58	35	-39%
Form Release Compounds	32,090	38,957	21%	2	5	182%	41	158	282%	20	15	-22%
Graphic Arts	12,722	PD	PD	3	0	-87%	125	211	69%	38	39	3%
High Temperature	11	NA	-100%	0	NA	-100%	261	NA		32	NA	-100%
Industrial Maintenance	613,946	693,040	13%	231	238	3%	179	173	-4%	44	39	-10%
Lacquers	72,849	353,591	385%	36	93	155%	282	151	-46%	30	33	11%
Low Solids	13,413	65,680	390%	3	16	400%	59	60	2%	8	9	14%
Magnesite Cement	NA	NA		NA	NA		NA	NA		NA	NA	
Mastic Texture	418,447	PD	PD	82	113	38%	85	72	-15%	51	52	2%
Metallic Pigmented	112,402	132,598	18%	24	16	-34%	134	77	-43%	31	36	13%
Multi-Color	7,517	PD	PD	3	1	-47%	224	94	-58%	23	23	2%
Nonflat - High Gloss	1,329,648	1,663,727	25%	499	424	-15%	203	150	-26%	35	35	0%
Nonflat - Low Gloss	6,570,365	12,028,042	83%	1,441	2,418	68%	128	118	-8%	36	35	-1%
Nonflat - Medium Gloss	17,535,565	20,048,316	14%	4,914	4,163	-15%	166	127	-23%	33	34	1%
Other	1,494,345	88,724	-94%	0	4	5573%	0	51	36585%	34	19	-45%
Pre-Treatment Wash Primer	71,154	4,571	-94%	28	1	-97%	238	163	-31%	31	22	-28%
Primer, Sealer, and Undercoater	6,755,899	10,144,536	50%	1,234	1,995	62%	118	122	3%	36	33	-8%
Quick Dry Enamel	16,294	50,070	207%	7	22	201%	234	237	1%	35	33	-5%

Table 11-5: Detailed Comparison of 2001 and 2005 Surveys – Water-borne

Coating Category	Sales Volume (gallons)			VOC Emissions (tons per year)			Sales-Weighted Average VOC Regulatory (g/l)			Sales-Weighted % by Volume Solids		
	2001	2005	% change	2001	2005	% change	2001	2005	% change	2001	2005	% change
Quick Dry Primer, Sealer, and Undercoater	400,703	38,026	-91%	97	3	-97%	146	45	-69%	35	36	3%
Recycled	323,216	223,381	-31%	0	0		204	193	-6%	16	41	152%
Roof	1,047,906	1,376,605	31%	131	103	-22%	56	40	-30%	45	44	-2%
Rust Preventative	43,151	87,117	102%	10	32	213%	177	201	14%	41	33	-20%
Sanding Sealers	7,816	23,310	198%	3	5	105%	245	174	-29%	26	28	8%
Shellacs - Clear	NA	NA		NA	NA		NA	NA		NA	NA	
Shellacs - Opaque	NA	NA		NA	NA		NA	NA		NA	NA	
Specialty Primer, Sealer, and Undercoater	355,060	501,382	41%	76	87	15%	103	91	-11%	46	40	-12%
Stains - Clear/Semitransparent	481,082	407,738	-15%	146	120	-18%	215	240	12%	23	19	-16%
Stains - Opaque	862,448	931,151	8%	188	149	-21%	141	102	-28%	32	35	11%
Swimming Pool	9,687	PD	PD	4	1	-63%	215	222	3%	33	39	16%
Swimming Pool Repair and Maintenance	NA	NA		NA	NA		NA	NA		NA	NA	
Traffic Marking	2,539,241	1,885,082	-26%	834	477	-43%	120	93	-23%	58	57	-1%
Varnishes - Clear	372,743	276,280	-26%	184	106	-42%	266	243	-9%	29	28	-3%
Varnishes - Semitransparent	3,205	8,635	169%	1	4	191%	270	256	-5%	27	30	12%
Waterproofing Concrete/Masonry Sealers	482,694	682,019	41%	100	162	62%	108	155	44%	40	34	-15%
Waterproofing Sealers	574,622	1,317,332	129%	98	295	201%	181	164	-9%	24	25	6%
Wood Preservatives	10,462	9,610	-8%	2	2	-5%	164	292	79%	11	11	-4%

Notes:

1. NA = Not Applicable. No water-borne sales were reported for this category.
2. PD = Protected Data. Fewer than three companies reported sales.
3. Sales volumes contained in this table include sales of small containers (1 quart or less).

Table 11-6: Summary of All ARB Architectural Coating Surveys – Sales Data

ARCHITECTURAL COATING SALES (gallons)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Antenna	SB	NA	NA	NA	NA	NA	NA	PD	NA
	WB	NA	NA	NA	NA	NA	NA	PD	NA
	Total	NA	NA	NA	NA	NA	NA	PD	NA
Antifouling	SB	NA	NA	NA	NA	NA	PD	NA	NA
	WB	NA	NA	NA	NA	NA	PD	NA	NA
	Total	NA	NA	NA	NA	NA	PD	NA	NA
Bituminous Roof	SB	1,158,000	1,953,271	1,254,751	1,224,930	308,356	1,295,827	1,608,033	225,764
	WB	1,427,000	106,307	283,876	606,011	682,614	3,623,800	1,637,364	1,328,939
	Total	2,585,000	2,059,579	1,538,626	1,830,941	990,969	4,919,627	3,245,397	1,554,703
Bituminous Roof Primer	SB	NA	NA	NA	NA	NA	NA	69,993	59,968
	WB	NA	NA	NA	NA	NA	NA	100,527	8,124
	Total	NA	NA	NA	NA	NA	NA	170,520	68,092
Bond Breakers	SB	NA	NA	176,930	NA	1,420	PD	0	PD
	WB	NA	NA	8,023	NA	5	PD	93,896	PD
	Total	NA	NA	184,953	NA	1,425	PD	93,896	187,785
Clear Brushing Lacquer	SB	NA	NA	NA	NA	NA	NA	PD	PD
	WB	NA	NA	NA	NA	NA	NA	0	0
	Total	NA	NA	NA	NA	NA	NA	PD	PD
Concrete Curing Compounds	SB	NA	NA	210,110	205	28,530	11,820	32,395	43,771
	WB	NA	NA	2,805	4,369	168,908	399,298	660,024	847,700
	Total	NA	NA	212,915	4,574	197,438	411,118	692,419	891,471
Driveway Sealer	SB	NA	PD						
	WB	NA	PD						
	Total	NA	2,205,802						
Dry Fog	SB	NA	22,057	67,701	86,421	80,778	76,661	243,047	187,112
	WB	NA	571	3,022	9,110	24,272	126,241	216,709	190,595
	Total	NA	22,629	70,723	95,531	105,050	202,902	459,756	377,707
Faux Finishing	SB	NA	NA	NA	NA	NA	NA	6,948	4,430
	WB	NA	NA	NA	NA	NA	NA	166,789	299,379
	Total	NA	NA	NA	NA	NA	NA	173,737	303,810

Table 11-6: Summary of All ARB Architectural Coating Surveys – Sales Data

ARCHITECTURAL COATING SALES (gallons)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Fire Resistive	SB	NA	NA	NA	NA	NA	NA	PD	PD
	WB	NA	NA	NA	NA	NA	NA	PD	PD
	Total	NA	NA	NA	NA	NA	NA	PD	12,510
Fire Retardant - Clear	SB	NA	NA	NA	NA	1,882	PD	PD	PD
	WB	NA	NA	NA	NA	0	PD	PD	0
	Total	NA	NA	NA	NA	1,882	PD	PD	PD
Fire Retardant - Opaque	SB	NA	5,229	8,000	3,844	16,120	10,297	PD	PD
	WB	NA	5,429	40,248	12,880	6,600	45,912	PD	PD
	Total	NA	10,657	48,248	16,724	22,720	56,209	29,055	195,197
Flat	SB	1,570,000	175,671	32,808	0	61,063	27,837	11,952	4,142
	WB	6,912,000	23,335,271	22,743,619	34,083,714	32,116,211	31,800,868	34,798,306	37,266,538
	Total	8,482,000	23,510,943	22,776,427	34,083,714	32,177,274	31,828,705	34,810,257	37,270,680
Floor	SB	498,000	NA	NA	NA	NA	493,568	149,939	168,212
	WB	339,000	NA	NA	NA	NA	657,393	1,275,125	1,224,078
	Total	837,000	NA	NA	NA	NA	1,150,961	1,425,064	1,392,290
Flow	SB	NA	NA	NA	NA	NA	NA	PD	NA
	WB	NA	NA	NA	NA	NA	NA	PD	NA
	Total	NA	NA	NA	NA	NA	NA	PD	NA
Form Release Compounds	SB	NA	NA	NA	1,540	5,937	11,025	223,634	284,655
	WB	NA	NA	NA	0	4,304	72,218	32,090	38,957
	Total	NA	NA	NA	1,540	10,241	83,243	255,724	323,612
Graphic Arts	SB	NA	49,757	53,678	32,802	527,945	PD	13,667	PD
	WB	NA	1,571	680	0	5,425	PD	12,722	PD
	Total	NA	51,329	54,358	32,802	533,370	40,366	26,389	PD
High Temperature	SB	NA	NA	NA	NA	13,265	22,839	PD	11,736
	WB	NA	NA	NA	NA	0	175	PD	0
	Total	NA	NA	NA	NA	13,265	23,014	PD	11,736
Industrial Maintenance	SB	1,972,000	3,131,586	3,228,962	2,856,021	2,845,462	3,948,166	4,126,134	1,391,172
	WB	42,000	127,543	5,061	316,215	270,612	381,615	613,946	693,040
	Total	2,014,000	3,259,129	3,234,023	3,172,236	3,116,074	4,329,781	4,740,079	2,084,212

Table 11-6: Summary of All ARB Architectural Coating Surveys – Sales Data

ARCHITECTURAL COATING SALES (gallons)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Lacquers	SB	910,000	1,653,836	2,065,906	1,403,422	844,923	625,938	374,503	942,732
	WB	9,000	40,350	34,847	11,860	48,365	43,679	72,849	353,591
	Total	919,000	1,694,186	2,100,753	1,415,282	893,288	669,617	447,352	1,296,323
Low Solids	SB	NA	NA	NA	NA	NA	PD	0	0
	WB	NA	NA	NA	NA	NA	PD	13,413	65,680
	Total	NA	NA	NA	NA	NA	PD	13,413	65,680
Magnesite Cement	SB	NA	NA	NA	52,564	44,225	PD	PD	PD
	WB	NA	NA	NA	0	0	PD	PD	0
	Total	NA	NA	NA	52,564	44,225	PD	PD	PD
Mastic Texture	SB	NA	7,114	442,775	442,213	171,875	PD	210,143	PD
	WB	NA	165,143	405,098	745,936	603,307	PD	418,447	PD
	Total	NA	172,257	847,873	1,188,149	775,182	299,727	628,590	812,614
Metallic Pigmented	SB	492,000	84,943	33,229	233,373	355,461	272,965	513,541	518,414
	WB	3,000	0	40	24,422	10,917	119,862	112,402	132,598
	Total	495,000	84,943	33,269	257,795	366,378	392,827	625,944	651,012
Multi-Color	SB	NA	600	70,000	13,880	0	PD	PD	PD
	WB	NA	57,143	0	14,912	30,000	PD	PD	PD
	Total	NA	57,743	70,000	28,792	30,000	PD	PD	13,635
Nonflat - High Gloss	SB	1,182,000	1,259,343	1,165,747	862,517	1,330,462	532,033	596,788	41,929
	WB	891,000	3,382,995	3,087,996	5,369,168	686,929	1,618,786	1,329,648	1,663,727
	Total	2,073,000	4,642,338	4,253,743	6,231,685	2,017,391	2,150,818	1,926,436	1,705,656
Nonflat - Low Gloss	SB	1,422,000	1,259,343	1,165,747	862,517	94,305	34,373	24,525	3,856
	WB	6,610,000	3,382,995	3,087,996	5,369,168	2,967,097	4,440,720	6,570,365	12,028,042
	Total	8,032,000	4,642,338	4,253,743	6,231,685	3,061,401	4,475,094	6,594,890	12,031,898
Nonflat - Medium Gloss	SB	1,422,000	1,259,343	1,165,747	862,517	1,471,167	522,186	567,173	77,344
	WB	6,610,000	3,382,995	3,087,996	5,369,168	12,644,902	15,107,606	17,535,565	20,048,316
	Total	8,032,000	4,642,338	4,253,743	6,231,685	14,116,069	15,629,792	18,102,739	20,125,660
Other	SB	1,707,000	214	NA	NA	156,354	PD	15,971	2,576
	WB	2,604,000	0	NA	NA	316,511	PD	1,494,345	88,724
	Total	4,311,000	214	NA	NA	472,865	PD	1,510,316	91,301

Table 11-6: Summary of All ARB Architectural Coating Surveys – Sales Data

ARCHITECTURAL COATING SALES (gallons)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Pre-Treatment Wash Primer	SB	NA	NA	NA	25,559	17,530	PD	4,188	1,082
	WB	NA	NA	NA	3,969	3,810	PD	71,154	4,571
	Total	NA	NA	NA	29,528	21,340	71,940	75,342	5,652
Primer, Sealer, and Undercoater	SB	1,617,000	2,135,271	1,764,741	1,990,029	1,870,856	1,573,273	1,369,924	261,172
	WB	1,084,000	1,324,043	1,736,199	3,748,118	3,916,979	4,689,604	6,755,899	10,144,536
	Total	2,701,000	3,459,314	3,500,940	5,738,147	5,787,835	6,262,877	8,125,823	10,405,708
Quick Dry Enamel	SB	NA	NA	343,978	1,341,102	482,859	904,739	PD	712,214
	WB	NA	NA	10,066	8,069	1,332	0	PD	50,070
	Total	NA	NA	354,044	1,349,171	484,191	904,739	PD	762,284
Quick Dry Primer, Sealer, and Undercoater	SB	NA	NA	223,533	704,992	285,353	1,076,267	1,259,524	226,057
	WB	NA	NA	12,265	119,141	91,634	836,648	400,703	38,026
	Total	NA	NA	235,798	824,133	376,987	1,912,915	1,660,227	264,083
Recycled	SB	NA	NA	NA	NA	NA	NA	0	0
	WB	NA	NA	NA	NA	NA	NA	323,216	223,381
	Total	NA	NA	NA	NA	NA	NA	323,216	223,381
Roof	SB	1,158,000	1,953,271	1,254,751	1,224,930	308,356	PD	89,448	44,101
	WB	1,427,000	106,307	283,876	606,011	682,614	PD	1,047,906	1,376,605
	Total	2,585,000	2,059,579	1,538,626	1,830,941	990,969	PD	1,137,354	1,420,706
Rust Preventative	SB	NA	NA	NA	NA	NA	PD	166,748	2,007,468
	WB	NA	NA	NA	NA	NA	PD	43,151	87,117
	Total	NA	NA	NA	NA	NA	PD	209,899	2,094,585
Sanding Sealers	SB	NA	NA	NA	NA	377,811	110,767	20,452	36,659
	WB	NA	NA	NA	NA	8,923	5,166	7,816	23,310
	Total	NA	NA	NA	NA	386,734	115,933	28,268	59,969
Shellacs - Clear	SB	NA	NA	45,108	36,335	34,263	PD	PD	PD
	WB	NA	NA	0	0	0	PD	PD	0
	Total	NA	NA	45,108	36,335	34,263	PD	PD	PD
Shellacs - Opaque	SB	NA	NA	45,108	36,335	74,311	PD	PD	PD
	WB	NA	NA	0	0	0	PD	PD	0
	Total	NA	NA	45,108	36,335	74,311	PD	PD	PD

Table 11-6: Summary of All ARB Architectural Coating Surveys – Sales Data

ARCHITECTURAL COATING SALES (gallons)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Specialty Primer, Sealer, and Undercoater	SB	NA	NA	312,289	187,108	NA	NA	21,461	1,518,613
	WB	NA	NA	80,862	164,086	NA	NA	355,060	501,382
	Total	NA	NA	393,151	351,194	NA	NA	376,521	2,019,995
Stains - Clear/Semitransparent	SB	684,000	1,761,343	1,665,303	1,039,254	1,162,658	1,007,681	1,690,513	1,458,981
	WB	602,500	249,429	85,369	486,998	573,580	434,104	481,082	407,738
	Total	1,286,500	2,010,771	1,750,672	1,526,252	1,736,238	1,441,785	2,171,595	1,866,719
Stains - Opaque	SB	684,000	766,857	408,832	270,298	257,514	127,373	224,925	20,627
	WB	602,500	2,039,986	1,633,753	2,296,689	1,527,783	1,391,817	862,448	931,151
	Total	1,286,500	2,806,843	2,042,585	2,566,987	1,785,297	1,519,190	1,087,373	951,777
Swimming Pool	SB	NA	42,643	34,873	14,970	3,234	PD	12,399	PD
	WB	NA	0	268	432	0	PD	9,687	PD
	Total	NA	42,643	35,141	15,401	3,234	3,492	22,086	7,852
Swimming Pool Repair and Maintenance	SB	NA	42,643	34,873	14,970	4,094	PD	15,266	PD
	WB	NA	0	268	432	0	PD	0	0
	Total	NA	42,643	35,141	15,401	4,094	PD	15,266	PD
Temperature Indicator Safety	SB	NA							
	WB	NA							
	Total	NA							
Traffic Marking	SB	1,604,000	1,488,513	1,373,025	535,159	3,199,602	885,126	799,677	329,369
	WB	44,000	411,843	779,686	666,896	1,037,326	1,998,244	2,539,241	1,885,082
	Total	1,648,000	1,900,356	2,152,711	1,202,055	4,236,928	2,883,370	3,338,918	2,214,451
Varnishes - Clear	SB	910,000	1,653,836	1,005,433	603,151	816,021	445,397	715,117	696,005
	WB	9,000	40,350	12,548	62,924	44,765	172,031	372,743	276,280
	Total	919,000	1,694,186	1,017,981	666,075	860,787	617,428	1,087,860	972,285
Varnishes - Semitransparent	SB	NA	NA	NA	NA	NA	100,292	58,300	86,302
	WB	NA	NA	NA	NA	NA	61,917	3,205	8,635
	Total	NA	NA	NA	NA	NA	162,209	61,505	94,937
Waterproofing Concrete/Masonry Sealers	SB	NA	NA	NA	NA	NA	NA	225,227	841,448
	WB	NA	NA	NA	NA	NA	NA	482,694	682,019
	Total	NA	NA	NA	NA	NA	NA	707,921	1,523,467

Table 11-6: Summary of All ARB Architectural Coating Surveys – Sales Data

ARCHITECTURAL COATING SALES (gallons)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Waterproofing Sealers	SB	NA	694,614	750,079	140,549	736,269	616,356	442,989	309,312
	WB	NA	44,886	11,039	118,307	287,667	453,650	574,622	1,317,332
	Total	NA	739,500	761,118	258,856	1,023,936	1,070,006	1,017,611	1,626,644
Wood Preservatives	SB	NA	882,300	623,900	272,170	270,196	PD	166,982	164,236
	WB	NA	1,000	15,583	280,920	32,877	PD	10,462	9,610
	Total	NA	883,300	639,483	553,090	303,073	375,832	177,444	173,846
SALES TOTALS (gallons)									
Solvent-borne:		18,990,000	22,283,599	21,027,914	17,375,674	18,260,455	15,685,996	16,906,211	13,311,087
Water-borne:		29,216,000	38,206,157	37,453,089	60,499,924	58,796,269	71,809,644	81,548,961	97,365,588
Grand Total:		48,206,000	60,489,756	58,481,003	77,875,598	77,056,724	87,495,639	98,455,172	110,676,675

Notes:

1. NA = Not Applicable. No sales were reported for this category or this category did not exist in the given survey year.
2. PD = Protected Data. Fewer than three companies reported sales.
3. Sales volumes contained in this table include sales of small containers (1 quart or less).
4. Totals don't include aerosol coatings which were listed in some of the older coating surveys.
5. Totals don't include thinning solvents, cleanup solvents, or additives.
6. ARB staff established the correlation between the categories that were originally reported and the current list of coating categories. If multiple current categories were selected, sales and emissions data were divided evenly. For example, "Roof" was originally reported and ARB staff selected two corresponding current categories: "Roof" and "Bituminous Roof". Half of the sales was attributed to "Roof" and the other half was attributed to "Bituminous Roof".

Table 11-7: Summary of All ARB Architectural Coating Surveys – Emissions Data

ARCHITECTURAL COATING VOC EMISSIONS (tons/day)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Antenna	SB	NA	NA	NA	NA	NA	NA	PD	NA
	WB	NA	NA	NA	NA	NA	NA	PD	NA
	Total	NA	NA	NA	NA	NA	NA	PD	NA
Antifouling	SB	NA	NA	NA	NA	NA	PD	NA	NA
	WB	NA	NA	NA	NA	NA	PD	NA	NA
	Total	NA	NA	NA	NA	NA	PD	NA	NA
Bituminous Roof	SB	5.05	6.27	4.57	4.18	0.92	2.52	4.30	0.62
	WB	0.00	0.01	0.05	0.08	0.28	0.07	0.03	0.03
	Total	5.05	6.29	4.62	4.26	1.21	2.59	4.33	0.64
Bituminous Roof Primer	SB	NA	NA	NA	NA	NA	NA	0.31	0.23
	WB	NA	NA	NA	NA	NA	NA	0.05	0.01
	Total	NA	NA	NA	NA	NA	NA	0.37	0.24
Bond Breakers	SB	NA	NA	1.22	0.00	0.01	0.00	0.00	0.01
	WB	NA	NA	0.00	0.00	0.00	0.03	0.07	0.16
	Total	NA	NA	1.22	0.00	0.01	0.03	0.07	0.17
Clear Brushing Lacquer	SB	NA	NA	NA	NA	NA	NA	0.53	0.63
	WB	NA							
	Total	NA	NA	NA	NA	NA	NA	0.53	0.63
Concrete Curing Compounds	SB	NA	NA	1.73	0.00	0.26	0.09	0.08	0.11
	WB	NA	NA	0.00	0.01	0.05	0.35	0.29	0.37
	Total	NA	NA	1.73	0.01	0.31	0.45	0.37	0.49
Driveway Sealer	SB	NA	0.02						
	WB	NA	0.02						
	Total	NA	0.04						
Dry Fog	SB	NA	0.10	0.32	0.40	0.34	0.31	0.85	0.68
	WB	NA	0.00	0.00	0.01	0.01	0.16	0.25	0.13
	Total	NA	0.10	0.32	0.41	0.36	0.48	1.10	0.82
Faux Finishing	SB	NA	NA	NA	NA	NA	NA	0.03	0.02
	WB	NA	NA	NA	NA	NA	NA	0.18	0.32
	Total	NA	NA	NA	NA	NA	NA	0.22	0.34
Fire Resistive	SB	NA	NA	NA	NA	NA	NA	0.00	0.02
	WB	NA	NA	NA	NA	NA	NA	0.00	0.00
	Total	NA	NA	NA	NA	NA	NA	0.00	0.02
Fire Retardant - Clear	SB	NA	NA	NA	NA	0.01	0.00	0.00	0.00
	WB	NA	NA	NA	NA	0.00	0.00	0.00	NA
	Total	NA	NA	NA	NA	0.01	0.00	0.00	0.00
Fire Retardant - Opaque	SB	NA	0.00	0.02	0.03	0.07	0.03	0.01	0.72
	WB	NA	0.00	0.02	0.04	0.00	0.02	0.01	0.00
	Total	NA	0.00	0.04	0.06	0.07	0.05	0.02	0.72
Flat	SB	6.93	0.85	0.16	0.00	0.24	0.12	0.05	0.02
	WB	6.57	13.17	13.96	17.51	16.16	14.43	15.55	13.79
	Total	13.51	14.02	14.13	17.51	16.40	14.55	15.60	13.80
Floor	SB	2.50	NA	NA	NA	NA	0.84	0.24	0.29
	WB	0.10	NA	NA	NA	NA	0.59	0.63	0.53
	Total	2.60	NA	NA	NA	NA	1.43	0.87	0.83

Table 11-7: Summary of All ARB Architectural Coating Surveys – Emissions Data

ARCHITECTURAL COATING VOC EMISSIONS (tons/day)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Flow	SB	NA	NA	NA	NA	NA	NA	PD	NA
	WB	NA	NA	NA	NA	NA	NA	PD	NA
	Total	NA	NA	NA	NA	NA	NA	PD	NA
Form Release Compounds	SB	NA	NA	NA	0.01	0.04	0.03	0.61	0.79
	WB	NA	NA	NA	0.00	0.00	0.00	0.01	0.01
	Total	NA	NA	NA	0.01	0.04	0.03	0.61	0.80
Graphic Arts	SB	NA	0.16	0.25	0.16	2.48	0.05	0.06	0.02
	WB	NA	0.00	0.00	0.00	0.00	0.00	0.01	0.00
	Total	NA	0.16	0.25	0.16	2.48	0.06	0.07	0.02
High Temperature	SB	NA	NA	NA	NA	0.08	0.10	0.08	0.05
	WB	NA	NA	NA	NA	0.00	0.00	0.00	NA
	Total	NA	NA	NA	NA	0.08	0.10	0.08	0.05
Industrial Maintenance	SB	8.70	16.20	15.78	12.49	11.82	14.00	14.81	3.57
	WB	0.04	0.10	0.01	0.69	0.29	0.36	0.63	0.65
	Total	8.74	16.31	15.78	13.18	12.11	14.36	15.44	4.23
Lacquers	SB	4.70	10.79	15.10	10.46	6.42	4.51	2.40	3.38
	WB	0.00	0.05	0.04	0.02	0.07	0.04	0.10	0.25
	Total	4.70	10.84	15.14	10.47	6.49	4.56	2.50	3.63
Low Solids	SB	NA	NA	NA	NA	NA	0.00	0.00	NA
	WB	NA	NA	NA	NA	NA	0.01	0.01	0.04
	Total	NA	NA	NA	NA	NA	0.01	0.01	0.04
Magnesite Cement	SB	NA	NA	NA	0.36	0.29	0.25	0.12	0.09
	WB	NA	NA	NA	0.00	0.00	0.00	NA	NA
	Total	NA	NA	NA	0.36	0.29	0.25	0.12	0.09
Mastic Texture	SB	NA	0.03	0.91	0.87	0.36	0.15	0.45	0.26
	WB	NA	0.06	0.21	1.89	0.31	0.12	0.23	0.31
	Total	NA	0.09	1.12	2.76	0.67	0.27	0.68	0.57
Metallic Pigmented	SB	2.60	0.46	0.19	1.28	1.91	1.41	2.75	2.12
	WB	0.00	0.00	0.00	0.01	0.00	0.07	0.06	0.04
	Total	2.60	0.46	0.19	1.28	1.91	1.47	2.81	2.16
Multi-Color	SB	NA	0.00	0.32	0.05	0.00	0.01	0.00	0.00
	WB	NA	0.22	0.00	0.05	0.11	0.07	0.01	0.00
	Total	NA	0.22	0.32	0.10	0.11	0.08	0.01	0.00
Nonflat - High Gloss	SB	4.60	5.13	4.85	2.82	4.76	2.23	2.28	0.17
	WB	1.30	2.61	2.92	4.47	0.77	1.71	1.37	1.16
	Total	5.90	7.73	7.77	7.29	5.53	3.94	3.65	1.34
Nonflat - Low Gloss	SB	6.33	5.13	4.85	2.82	0.40	0.13	0.10	0.02
	WB	6.47	2.61	2.92	4.47	2.15	3.00	3.95	6.63
	Total	12.80	7.73	7.77	7.29	2.56	3.14	4.05	6.64
Nonflat - Medium Gloss	SB	6.33	5.13	4.85	2.82	4.73	1.71	2.12	0.33
	WB	6.47	2.61	2.92	4.47	10.15	10.55	13.46	11.41
	Total	12.80	7.73	7.77	7.29	14.88	12.26	15.58	11.73
Other	SB	8.20	0.00	NA	NA	0.88	0.52	0.02	0.01
	WB	1.50	0.00	NA	NA	0.15	0.02	0.00	0.01
	Total	9.70	0.00	NA	NA	1.04	0.54	0.02	0.02

Table 11-7: Summary of All ARB Architectural Coating Surveys – Emissions Data

ARCHITECTURAL COATING VOC EMISSIONS (tons/day)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Pre-Treatment Wash Primer	SB	NA	NA	NA	0.12	0.15	0.01	0.02	0.01
	WB	NA	NA	NA	0.00	0.01	0.08	0.08	0.00
	Total	NA	NA	NA	0.13	0.16	0.09	0.10	0.01
Primer, Sealer, and Undercoater	SB	7.30	10.83	7.73	6.84	6.87	6.19	5.17	1.08
	WB	1.09	0.61	0.98	2.21	2.00	2.18	3.38	5.46
	Total	8.39	11.44	8.71	9.05	8.87	8.37	8.55	6.54
Quick Dry Enamel	SB	NA	NA	1.76	6.06	2.22	4.07	2.47	3.17
	WB	NA	NA	0.01	0.01	0.00	0.00	0.02	0.06
	Total	NA	NA	1.77	6.08	2.22	4.07	2.49	3.23
Quick Dry Primer, Sealer, and Undercoater	SB	NA	NA	1.35	3.97	1.20	5.28	6.22	1.05
	WB	NA	NA	0.01	0.07	0.04	0.67	0.26	0.01
	Total	NA	NA	1.36	4.04	1.25	5.95	6.49	1.06
Recycled	SB	NA	NA	NA	NA	NA	NA	0.00	0.00
	WB	NA							
	Total	NA	NA	NA	NA	NA	NA	0.00	0.00
Roof	SB	5.05	6.27	4.57	4.18	0.92	0.34	0.21	0.12
	WB	0.00	0.01	0.05	0.08	0.28	0.20	0.36	0.28
	Total	5.05	6.29	4.62	4.26	1.21	0.54	0.57	0.40
Rust Preventative	SB	NA	NA	NA	NA	NA	0.26	0.72	8.60
	WB	NA	NA	NA	NA	NA	0.00	0.03	0.09
	Total	NA	NA	NA	NA	NA	0.26	0.75	8.69
Sanding Sealers	SB	NA	NA	NA	NA	2.88	0.84	0.13	0.23
	WB	NA	NA	NA	NA	0.01	0.00	0.01	0.01
	Total	NA	NA	NA	NA	2.89	0.84	0.14	0.24
Shellacs - Clear	SB	NA	NA	0.29	0.23	0.24	0.21	0.11	0.35
	WB	NA	NA	0.00	0.00	0.00	0.00	NA	NA
	Total	NA	NA	0.29	0.23	0.24	0.21	0.11	0.35
Shellacs - Opaque	SB	NA	NA	0.29	0.23	0.44	0.74	0.50	0.81
	WB	NA	NA	0.00	0.00	0.00	0.00	NA	NA
	Total	NA	NA	0.29	0.23	0.44	0.74	0.50	0.81
Specialty Primer, Sealer, and Undercoater	SB	NA	NA	1.72	0.87	NA	NA	0.10	5.95
	WB	NA	NA	0.06	0.16	NA	NA	0.21	0.24
	Total	NA	NA	1.78	1.03	NA	NA	0.31	6.19
Stains - Clear/Semitransparent	SB	4.00	12.00	11.29	5.26	5.59	5.16	7.46	5.93
	WB	0.65	0.23	0.07	0.21	0.48	0.49	0.40	0.33
	Total	4.65	12.23	11.36	5.47	6.07	5.65	7.86	6.26
Stains - Opaque	SB	4.00	3.41	2.01	1.13	1.16	0.54	0.85	0.07
	WB	0.65	1.20	0.98	1.36	0.95	0.89	0.52	0.41
	Total	4.65	4.61	2.99	2.50	2.11	1.43	1.36	0.48
Swimming Pool	SB	NA	0.24	0.25	0.13	0.02	0.02	0.05	0.02
	WB	NA	0.00	0.00	0.00	0.00	0.00	0.01	0.00
	Total	NA	0.24	0.25	0.13	0.02	0.02	0.06	0.02
Swimming Pool Repair and Maintenance	SB	NA	0.24	0.25	0.13	0.01	0.08	0.10	0.01
	WB	NA	0.00	0.00	0.00	0.00	0.00	NA	NA
	Total	NA	0.24	0.25	0.13	0.01	0.08	0.10	0.01

Table 11-7: Summary of All ARB Architectural Coating Surveys – Emissions Data

ARCHITECTURAL COATING VOC EMISSIONS (tons/day)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Temperature Indicator Safety	SB	NA	NA	NA	NA	NA	NA	NA	NA
	WB	NA	NA	NA	NA	NA	NA	NA	NA
	Total	NA	NA	NA	NA	NA	NA	NA	NA
Traffic Marking	SB	7.10	6.75	6.41	2.18	4.29	1.98	0.75	0.36
	WB	0.03	0.13	0.24	0.60	0.93	1.69	2.29	1.31
	Total	7.13	6.89	6.64	2.78	5.22	3.67	3.03	1.67
Varnishes - Clear	SB	4.70	10.79	5.52	2.86	4.03	2.35	3.52	3.63
	WB	0.00	0.05	0.02	0.32	0.04	0.20	0.51	0.29
	Total	4.70	10.84	5.54	3.18	4.07	2.55	4.03	3.93
Varnishes - Semitransparent	SB	NA	NA	NA	NA	NA	0.53	0.29	0.43
	WB	NA	NA	NA	NA	NA	0.08	0.00	0.01
	Total	NA	NA	NA	NA	NA	0.61	0.30	0.44
Waterproofing Concrete/Masonry Sealers	SB	NA	NA	NA	NA	NA	NA	1.02	1.91
	WB	NA	NA	NA	NA	NA	NA	0.28	0.45
	Total	NA	NA	NA	NA	NA	NA	1.30	2.35
Waterproofing Sealers	SB	NA	5.56	5.85	0.79	3.44	2.51	1.65	0.93
	WB	NA	0.02	0.00	0.03	0.07	0.30	0.27	0.81
	Total	NA	5.57	5.86	0.82	3.51	2.81	1.92	1.74
Wood Preservatives	SB	NA	6.68	3.93	1.40	1.14	0.89	0.68	0.61
	WB	NA	0.00	0.04	1.33	0.02	0.04	0.00	0.00
	Total	NA	6.68	3.97	2.73	1.16	0.93	0.68	0.62
EMISSIONS TOTALS (tons/day)									
	Solvent-borne:	88.1	113.0	108.4	75.1	70.6	61.0	64.2	49.5
	Water-borne:	24.9	23.7	25.5	40.1	35.3	38.4	45.5	45.7
	Grand Total:	113.0	136.7	133.9	115.2	106.0	99.4	109.7	95.1

Notes:

1. NA = Not Applicable. No sales were reported for this category or this category did not exist in the given survey year.
2. This table includes VOC emissions from small containers (1 quart or less).

Table 11-8: Summary of All ARB Architectural Coating Surveys – Emission Factors

ARCHITECTURAL COATING EMISSION FACTORS (lbs VOC/gal coating)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Bituminous Roof	SB	3.18	2.34	2.66	2.49	2.19	1.42	1.95	1.99
	WB	0.00	0.09	0.12	0.10	0.30	0.01	0.01	0.02
	All	1.43	2.23	2.19	1.70	0.89	0.38	0.97	0.30
Bituminous Roof Primer	SB	NA	NA	NA	NA	NA	NA	3.26	2.84
	WB	NA	NA	NA	NA	NA	NA	0.38	0.59
	All	NA	NA	NA	NA	NA	NA	1.56	2.57
Bond Breakers	SB	NA	NA	5.03	NA	4.33	PD	NA	PD
	WB	NA	NA	0.00	NA	1.09	PD	0.53	PD
	All	NA	NA	4.81	NA	4.32	PD	0.53	0.66

Table 11-8: Summary of All ARB Architectural Coating Surveys – Emission Factors

ARCHITECTURAL COATING EMISSION FACTORS (lbs VOC/gal coating)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Clear Brushing Lacquer	SB	NA	NA	NA	NA	NA	NA	PD	PD
	WB	NA							
	All	NA	NA	NA	NA	NA	NA	PD	PD
Concrete Curing Compounds	SB	NA	NA	6.01	9.76	6.62	5.65	1.84	1.88
	WB	NA	NA	0.00	1.37	0.21	0.65	0.32	0.32
	All	NA	NA	5.93	1.75	1.14	0.79	0.39	0.40
Driveway Sealer	SB	NA	PD						
	WB	NA	PD						
	All	NA	0.01						
Dry Fog	SB	NA	3.37	3.46	3.38	3.10	2.95	2.56	2.67
	WB	NA	0.00	0.00	0.44	0.42	0.95	0.83	0.50
	All	NA	3.28	3.31	3.10	2.48	1.71	1.74	1.58
Faux Finishing	SB	NA	NA	NA	NA	NA	NA	3.36	3.27
	WB	NA	NA	NA	NA	NA	NA	0.80	0.79
	All	NA	NA	NA	NA	NA	NA	0.91	0.83
Fire Resistive	SB	NA	NA	NA	NA	NA	NA	PD	PD
	WB	NA	NA	NA	NA	NA	NA	PD	PD
	All	NA	NA	NA	NA	NA	NA	PD	0.98
Fire Retardant - Clear	SB	NA	NA	NA	NA	4.80	PD	PD	PD
	WB	NA	NA	NA	NA	NA	PD	PD	NA
	All	NA	NA	NA	NA	4.80	PD	PD	PD
Fire Retardant - Opaque	SB	NA	0.00	2.00	5.20	3.11	2.23	PD	PD
	WB	NA	0.00	0.30	2.02	0.08	0.25	PD	PD
	All	NA	0.00	0.58	2.75	2.23	0.61	0.43	2.69
Flat	SB	3.22	3.51	3.66	NA	2.89	3.11	3.08	2.75
	WB	0.69	0.41	0.45	0.37	0.37	0.33	0.33	0.27
	All	1.16	0.44	0.45	0.37	0.37	0.33	0.33	0.27
Floor	SB	3.66	NA	NA	NA	NA	1.24	1.15	1.27
	WB	0.22	NA	NA	NA	NA	0.66	0.36	0.32
	All	2.27	NA	NA	NA	NA	0.91	0.45	0.43
Form Release Compounds	SB	NA	NA	NA	5.19	4.97	2.06	1.98	2.02
	WB	NA	NA	NA	NA	0.41	0.01	0.11	0.27
	All	NA	NA	NA	5.19	3.06	0.28	1.74	1.81
Graphic Arts	SB	NA	2.30	3.39	3.54	3.43	PD	3.45	PD
	WB	NA	0.00	2.94	NA	0.37	PD	0.44	PD
	All	NA	2.23	3.38	3.54	3.40	1.00	2.00	PD
High Temperature	SB	NA	NA	NA	NA	4.49	3.05	PD	3.04
	WB	NA	NA	NA	NA	NA	0.82	PD	NA
	All	NA	NA	NA	NA	4.49	3.03	PD	3.04

Table 11-8: Summary of All ARB Architectural Coating Surveys – Emission Factors

ARCHITECTURAL COATING EMISSION FACTORS (lbs VOC/gal coating)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Industrial Maintenance	SB	3.22	3.78	3.57	3.19	3.03	2.59	2.62	1.88
	WB	0.64	0.58	0.79	1.59	0.78	0.69	0.75	0.69
	All	3.17	3.65	3.56	3.03	2.84	2.42	2.38	1.48
Lacquers	SB	3.77	4.76	5.34	5.44	5.55	5.26	4.68	2.62
	WB	0.32	0.92	0.86	1.01	1.02	0.73	1.00	0.52
	All	3.74	4.67	5.26	5.40	5.30	4.97	4.08	2.05
Low Solids	SB	NA	NA	NA	NA	NA	PD	NA	NA
	WB	NA	NA	NA	NA	NA	PD	0.49	0.50
	All	NA	NA	NA	NA	NA	PD	0.49	0.50
Magnesite Cement	SB	NA	NA	NA	4.98	4.74	PD	PD	PD
	WB	NA	NA	NA	NA	NA	PD	NA	NA
	All	NA	NA	NA	4.98	4.74	PD	PD	PD
Mastic Texture	SB	NA	2.81	1.50	1.44	1.55	PD	1.57	PD
	WB	NA	0.26	0.38	1.85	0.37	PD	0.39	PD
	All	NA	0.36	0.96	1.70	0.63	0.65	0.79	0.52
Metallic Pigmented	SB	3.86	3.94	4.15	4.00	3.91	3.76	3.91	2.99
	WB	0.24	NA	0.00	0.16	0.08	0.41	0.42	0.24
	All	3.84	3.94	4.15	3.64	3.80	2.74	3.28	2.43
Multi-Color	SB	NA	0.00	3.37	2.74	NA	PD	PD	PD
	WB	NA	2.75	NA	2.28	2.70	PD	PD	PD
	All	NA	2.72	3.37	2.50	2.70	PD	PD	0.25
Nonflat - High Gloss	SB	2.84	2.97	3.04	2.38	2.61	3.05	2.79	3.02
	WB	1.07	0.56	0.69	0.61	0.82	0.77	0.75	0.51
	All	2.08	1.22	1.33	0.85	2.00	1.34	1.38	0.57
Nonflat - Low Gloss	SB	3.25	2.97	3.04	2.38	3.12	2.85	3.09	3.34
	WB	0.71	0.56	0.69	0.61	0.53	0.49	0.44	0.40
	All	1.16	1.22	1.33	0.85	0.61	0.51	0.45	0.40
Nonflat - Medium Gloss	SB	3.25	2.97	3.04	2.38	2.35	2.39	2.72	3.10
	WB	0.71	0.56	0.69	0.61	0.59	0.51	0.56	0.42
	All	1.16	1.22	1.33	0.85	0.77	0.57	0.63	0.43
Other	SB	3.51	0.00	NA	NA	4.13	PD	0.96	4.16
	WB	0.42	NA	NA	NA	0.35	PD	0.00	0.08
	All	1.64	0.00	NA	NA	1.60	PD	0.01	0.20
Pre-Treatment Wash Primer	SB	NA	NA	NA	3.52	6.07	PD	4.08	6.18
	WB	NA	NA	NA	0.50	2.44	PD	0.78	0.39
	All	NA	NA	NA	3.12	5.42	0.87	0.97	1.50
Primer, Sealer, and Undercoater	SB	3.30	3.70	3.20	2.51	2.68	2.87	2.75	3.02
	WB	0.73	0.34	0.41	0.43	0.37	0.34	0.37	0.39
	All	2.27	2.42	1.82	1.15	1.12	0.98	0.77	0.46

Table 11-8: Summary of All ARB Architectural Coating Surveys – Emission Factors

ARCHITECTURAL COATING EMISSION FACTORS (lbs VOC/gal coating)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Quick Dry Enamel	SB	NA	NA	3.73	3.30	3.35	3.28	PD	3.24
	WB	NA	NA	0.79	1.24	0.37	NA	PD	0.89
	All	NA	NA	3.64	3.29	3.34	3.28	PD	3.09
Quick Dry Primer, Sealer, and Undercoater	SB	NA	NA	4.41	4.11	3.07	3.58	3.61	3.41
	WB	NA	NA	0.33	0.44	0.35	0.58	0.48	0.18
	All	NA	NA	4.20	3.58	2.41	2.27	2.85	2.94
Recycled	SB	NA							
	WB	NA	NA	NA	NA	NA	NA	0.00	0.00
	All	NA	NA	NA	NA	NA	NA	0.00	0.00
Roof	SB	3.18	2.34	2.66	2.49	2.19	PD	1.74	1.97
	WB	0.00	0.09	0.12	0.10	0.30	PD	0.25	0.15
	All	1.43	2.23	2.19	1.70	0.89	PD	0.37	0.21
Rust Preventative	SB	NA	NA	NA	NA	NA	PD	3.16	3.13
	WB	NA	NA	NA	NA	NA	PD	0.47	0.73
	All	NA	NA	NA	NA	NA	PD	2.61	3.03
Sanding Sealers	SB	NA	NA	NA	NA	5.56	5.52	4.64	4.51
	WB	NA	NA	NA	NA	0.70	0.51	0.66	0.45
	All	NA	NA	NA	NA	5.45	5.30	3.54	2.93
Shellacs - Clear	SB	NA	NA	4.77	4.60	5.04	PD	PD	PD
	WB	NA	NA	NA	NA	NA	PD	NA	NA
	All	NA	NA	4.77	4.60	5.04	PD	PD	PD
Shellacs - Opaque	SB	NA	NA	4.77	4.60	4.36	PD	PD	PD
	WB	NA	NA	NA	NA	NA	PD	NA	NA
	All	NA	NA	4.77	4.60	4.36	PD	PD	PD
Specialty Primer, Sealer, and Undercoater	SB	NA	NA	4.01	3.39	NA	NA	3.34	2.86
	WB	NA	NA	0.54	0.72	NA	NA	0.43	0.35
	All	NA	NA	3.30	2.14	NA	NA	0.60	2.24
Stains - Clear/Semitransparent	SB	4.27	4.97	4.95	3.69	3.51	3.74	3.22	2.97
	WB	0.79	0.66	0.63	0.32	0.61	0.82	0.61	0.59
	All	2.64	4.44	4.74	2.62	2.55	2.86	2.64	2.45
Stains - Opaque	SB	4.27	3.25	3.59	3.06	3.29	3.07	2.75	2.40
	WB	0.79	0.43	0.44	0.43	0.45	0.47	0.44	0.32
	All	2.64	1.20	1.07	0.71	0.86	0.69	0.92	0.36
Swimming Pool	SB	NA	4.15	5.19	6.21	4.77	PD	2.67	PD
	WB	NA	NA	0.00	2.32	NA	PD	0.76	PD
	All	NA	4.15	5.15	6.10	4.77	3.34	1.83	1.74
Swimming Pool Repair and Maintenance	SB	NA	4.15	5.19	6.21	1.72	PD	4.76	PD
	WB	NA	NA	0.00	2.32	NA	PD	NA	NA
	All	NA	4.15	5.15	6.10	1.72	PD	4.76	PD

Table 11-8: Summary of All ARB Architectural Coating Surveys – Emission Factors

ARCHITECTURAL COATING EMISSION FACTORS (lbs VOC/gal coating)									
Coating Category	Type	1975	1980	1984	1988	1990	1996	2000	2004
Traffic Marking	SB	3.23	3.31	3.41	2.97	0.98	1.63	0.68	0.80
	WB	0.50	0.24	0.22	0.66	0.65	0.62	0.66	0.51
	All	3.16	2.65	2.25	1.69	0.90	0.93	0.66	0.55
Varnishes - Clear	SB	3.77	4.76	4.01	3.46	3.60	3.86	3.60	3.81
	WB	0.32	0.92	1.12	3.66	0.66	0.85	0.99	0.77
	All	3.74	4.67	3.97	3.48	3.45	3.02	2.70	2.95
Varnishes - Semitransparent	SB	NA	NA	NA	NA	NA	3.83	3.66	3.66
	WB	NA	NA	NA	NA	NA	0.99	0.83	0.90
	All	NA	NA	NA	NA	NA	2.74	3.51	3.41
Waterproofing Concrete/Masonry Sealers	SB	NA	NA	NA	NA	NA	NA	3.32	1.66
	WB	NA	NA	NA	NA	NA	NA	0.42	0.48
	All	NA	NA	NA	NA	NA	NA	1.34	1.13
Waterproofing Sealers	SB	NA	5.84	5.70	4.10	3.41	2.97	2.71	2.19
	WB	NA	0.25	0.18	0.20	0.17	0.49	0.34	0.45
	All	NA	5.50	5.62	2.32	2.50	1.92	1.37	0.78
Wood Preservatives	SB	NA	5.53	4.59	3.76	3.08	PD	2.97	2.73
	WB	NA	0.00	1.93	3.45	0.40	PD	0.35	0.36
	All	NA	5.52	4.53	3.60	2.79	1.80	2.81	2.59
EMISSION FACTORS (lb VOC/gal coating)									
Solvent-borne:		3.39	3.70	3.76	3.16	2.82	2.84	2.77	2.71
Water-borne:		0.62	0.45	0.50	0.48	0.44	0.39	0.41	0.34
Overall:		1.71	1.65	1.67	1.08	1.00	0.83	0.81	0.63

Notes:

1. NA = Not Applicable. No sales were reported for this category or this category did not exist in the given survey year.
2. PD = Protected Data. Fewer than three companies reported sales.
3. This table includes VOC emissions from small containers (1 quart or less).

Chapter 12 – Averaging Programs

This section provides an analysis of the survey data for products that were included in an architectural coating averaging program.

On June 22, 2000, the Board approved the suggested control measure for Architectural Coatings (SCM). The SCM specifies VOC limits for 47 coating categories. The SCM also contains a voluntary compliance option referred to as the averaging provision. This provision was intended to provide additional flexibility to the regulated industry, by allowing manufacturers to average emissions from higher-VOC products with emissions from low-VOC products. During 2003 and 2004, ARB staff managed the statewide averaging program for the eighteen local air districts that adopted rules based on the SCM, at that time. The averaging program in these rules ended on January 1, 2005.

The South Coast Air Quality Management District (SCAQMD) managed their own averaging program under their Architectural Coating Rule 1113, beginning in 2001. The averaging programs managed by the SCAQMD and the ARB were very similar, with one major exception - the SCAQMD averaging program is still in effect because it has no sunset date (i.e., expiration date).

The following table lists the categories that have been included in the averaging programs administered by the ARB and the SCAQMD.

Table 12-1: Categories Included in the Averaging Programs

Categories Included in the ARB & SCAQMD Averaging Programs
Bituminous Roof
Flat
Floor
Industrial Maintenance
Nonflat (excluding recycled coatings)
Primer, Sealer, Undercoater
Quick Dry Enamel
Quick Dry Primer, Sealer, Undercoater
Roof
Rust Preventative
Stains
Waterproofing Sealers
Additional Categories Only in the SCAQMD Averaging Program as of December 31, 2004
Bituminous Roof Primers
Interior Stains
Sanding Sealers
Specialty Primers
Varnishes
Waterproofing Concrete/Masonry Sealers

The previous chapters of this survey report contain analyses of the data as reported, without any special consideration for high-VOC products that were included in averaging programs. The results contained in this chapter highlight the products that were averaged.

This chapter includes the following data summaries:

Table 12-1: *Categories Included in the Averaging Programs*

Table 12-2: *Sales Volume - Only for Categories That Allowed Averaging*

Table 12-3: *VOC Emissions - Only for Categories That Allowed Averaging*

Table 12-4: *VOC Contents - Only for Categories That Allowed Averaging (no quarts)*

Table 12-5: *Complying Marketshares – Excluding High-VOC Products Included in Averaging Programs – SCM Limits*

Table 12-6: *Complying Marketshares – Excluding High-VOC Products Included in Averaging Programs – SCAQMD Future Limits*

Table 12-2 lists sales for coating categories that were included in the ARB and SCAQMD averaging programs. Sales sub-totals are provided for solvent-borne and water-borne sales and for averaged products. For the purposes of this table, total sales are divided into three subcategories:

- Small containers that are exempt from VOC limits and, therefore, weren't technically subject to any averaging programs.
- Large containers that were either not included in an averaging program or were below SCM VOC limits and were included in an averaging program to offset higher-VOC products.
- Large containers with VOC levels that exceeded SCM limits and were included in an averaging program.

Table 12-2: Sales Volume - Only for Categories That Allowed Averaging

Coating Category	Solventborne Sales (gallons)			Waterborne Sales (gallons)			Total Sales (gallons)	% of Total Sales			
	Small Containers	Large Containers		Small Containers	Large Containers			SB		WB	
	Products Not Subject to Averaging Program	Products Not in Averaging Program & Low-VOC Products In Averaging Program	High-VOC Products In Averaging Program	Products Not in Averaging Program	Products Not in Averaging Program & Low-VOC Products In Averaging Program	High-VOC Products In Averaging Program		Not Avg & Low-VOC Avg	Hi-VOC Avg	Not Avg & Low-VOC Avg	Hi-VOC Avg
Flat	101	4,041	0	571,425	36,140,946	554,167	37,270,680	0%	0%	99%	1%
Floor	3,269	164,943	0	6,457	1,217,621	0	1,392,290	12%	0%	88%	0%
Industrial Maintenance	22,822	1,211,718	156,632	3,536	686,096	3,409	2,084,212	59%	8%	33%	0%
Nonflat - Low Gloss	3,042	814	0	416,827	11,606,367	4,848	12,031,898	0%	0%	100%	0%
Nonflat - Medium Gloss	37,807	10,141	29,396	775,122	18,333,979	939,215	20,125,660	0%	0%	95%	5%
Nonflat - High Gloss	16,355	23,564	2,010	31,319	1,632,409	0	1,705,656	2%	0%	98%	0%
Primer, Sealer, and Undercoater	33,040	88,690	139,442	152,456	9,992,081	0	10,405,708	1%	1%	97%	0%
Quick Dry Enamel	16,044	11,360	684,810	213	49,857	0	762,284	4%	90%	7%	0%
Quick Dry Primer, Sealer, and Undercoater	16,929	73,834	135,294	1,522	36,504	0	264,083	34%	51%	14%	0%
Rust Preventative	219,514	1,787,296	658	12,152	74,965	0	2,094,585	96%	0%	4%	0%
Specialty Primer, Sealer, and Undercoater	34,950	1,482,137	1,526	10,667	490,715	0	2,019,995	75%	0%	25%	0%

Table 12-2: Sales Volume - Only for Categories That Allowed Averaging

Coating Category	Solventborne Sales (gallons)			Waterborne Sales (gallons)			Total Sales (gallons)	% of Total Sales			
	Small Containers	Large Containers		Small Containers	Large Containers			SB		WB	
	Products Not Subject to Averaging Program	Products Not in Averaging Program & Low-VOC Products In Averaging Program	High-VOC Products In Averaging Program	Products Not in Averaging Program	Products Not in Averaging Program & Low-VOC Products In Averaging Program	High-VOC Products In Averaging Program		Not Avg & Low-VOC Avg	Hi-VOC Avg	Not Avg & Low-VOC Avg	Hi-VOC Avg
Stains - Clear/Semitransparent	484,387	974,594	0	52,143	355,595	0	1,866,719	78%	0%	22%	0%
Stains - Opaque	447	20,180	0	2,985	928,166	0	951,777	2%	0%	98%	0%
Waterproofing Sealers	1,241	197,200	110,871	3,324	1,314,009	0	1,626,644	12%	7%	81%	0%
TOTALS:	889,947	6,050,512	1,260,639	2,040,145	82,859,309	1,501,639	94,602,192	85%	15%	98%	2%

Notes:

1. This report only contains sales for categories that were included in averaging programs. Bituminous Roof and Roof are categories that are eligible for averaging, but no companies reported that these types of products were averaged.
2. Small Containers: One quart or less. Large Containers: Greater than one quart.
3. Low-VOC Products In Averaging Program: Products with VOC Regulatory values that are less than SCM VOC Limits and were included in an averaging program to offset the higher-VOC products.
4. High-VOC Products In Averaging Program: Products with VOC Regulatory values that exceed SCM VOC Limits and were included in an averaging program.
5. Small Containers - Products Not Subject To Averaging Program: Sales of small containers that were technically exempt from VOC limits and were not subject to averaging programs, but may have been included in companies' averaging plan totals.
6. Large Containers – Products Not In Averaging Program: Products in large containers that were not included in averaging programs.

Table 12-3 lists VOC emissions for coating categories that were included in the ARB and SCAQMD averaging programs.

Table 12-3: VOC Emissions - Only for Categories That Allowed Averaging

Coating Category	VOC Emissions (tons/day)			Total Emissions (tons/day)	% of Emissions	
	Small Containers	Large Containers			Not Avg & Low-VOC Avg	Hi-VOC Avg
	Products Not Subject to Averaging Program	Products Not in Averaging Program & Low-VOC Products In Averaging Program	High-VOC Products In Averaging Program			
Flat	0.2	13.2	0.3	13.8	98%	2%
Floor	0.0	0.8	0.0	0.8	100%	0%
Industrial Maintenance	0.1	3.5	0.7	4.2	84%	16%
Nonflat - Low Gloss	0.3	6.4	0.0	6.6	100%	0%
Nonflat - Medium Gloss	0.7	9.7	1.3	11.7	89%	11%
Nonflat - High Gloss	0.1	1.2	0.0	1.3	99%	1%
Primer, Sealer, and Undercoater	0.3	5.7	0.6	6.5	91%	9%
Quick Dry Enamel	0.1	0.1	3.1	3.2	5%	95%
Quick Dry Primer, Sealer, and Undercoater	0.1	0.3	0.7	1.1	36%	64%
Rust Preventative	1.1	7.6	0.0	8.7	100%	0%
Specialty Primer, Sealer, and Undercoater	0.2	6.0	0.0	6.2	100%	0%
Stains - Clear/Semitransparent	2.8	3.4	0.0	6.3	100%	0%
Stains - Opaque	0.0	0.5	0.0	0.5	100%	0%
Waterproofing Sealers	0.0	1.4	0.3	1.7	81%	19%
TOTALS:	6	60	7	73	90%	10%

Notes:

1. This report only contains sales for categories that were included in averaging programs. Bituminous Roof and Roof are categories that are eligible for averaging, but no companies reported that these types of products were averaged.
2. Small Containers: One quart or less. Large Containers: Greater than one quart.
3. Low-VOC Products In Averaging Program: Products with VOC Regulatory values that are less than SCM VOC Limits and were included in an averaging program to offset the higher-VOC products.
4. High-VOC Products In Averaging Program: Products with VOC Regulatory values that exceed SCM VOC Limits and were included in an averaging program.
5. Small Containers - Products Not Subject To Averaging Program: Sales of small containers that were technically exempt from VOC limits and were not subject to averaging programs, but may have been included in companies' averaging plan totals.
6. Large Containers – Products Not In Averaging Program: Products in large containers that were not included in averaging programs.

Table 12-4 lists sales-weighted average VOC Regulatory contents for coating categories that were included in the ARB and SCAQMD averaging programs. This table only includes VOC Regulatory contents for large containers.

Table 12-4: VOC Contents - Only for Categories That Allowed Averaging (no quarts)

Coating Category	SCM VOC Limit (g/l)	Products Not in Averaging Program & Low-VOC Products In Averaging Program		High-VOC Products In Averaging Program	
		Large Container Sales (gals)	SWA VOC Reg. (g/l)	Large Container Sales (gals)	SWA VOC Reg. (g/l)
Flat	100	36,144,987	81	554,167	125
Floor	250	1,382,564	104	NA	NA
Industrial Maintenance	250	1,897,814	194	160,041	366
Nonflat - Low Gloss	150	11,607,181	118	4,848	188
Nonflat - Medium Gloss	150	18,344,120	121	968,611	235
Nonflat - High Gloss	250	1,655,973	152	2,010	394
Primer, Sealer, and Undercoater	200	10,080,771	123	139,442	353
Quick Dry Enamel	250	61,217	254	684,810	391
Quick Dry Primer, Sealer, and Undercoater	200	110,338	254	135,294	439
Rust Preventative	400	1,862,261	362	658	446
Specialty Primer, Sealer, and Undercoater	350	1,972,852	280	1,526	426
Stains - Clear/Semitransparent	250	1,330,189	279	NA	NA
Stains - Opaque	250	948,346	106	NA	NA
Waterproofing Sealers	250	1,511,208	181	110,871	265

Notes:

1. This report only contains sales for categories that were included in averaging programs. Bituminous Roof and Roof are categories that are eligible for averaging, but no companies reported that these types of products were averaged.
2. Large Containers: Greater than one quart.
3. SWA: Sales-Weighted Average based on sales volume.

Table 12-5 lists complying marketshares for coating categories that were included in the ARB and SCAQMD averaging programs. The table excludes high-VOC products that exceeded SCM VOC limits and were included in averaging programs. Compliance rates were based on SCM VOC limits and the table only includes data for large containers. Since high-VOC averaged products are not included in Table 12-5, complying marketshares for some categories are higher than the overall complying marketshares provided previously in Chapter 6. For comparison purposes, the last column of the table provides the complying marketshares from Chapter 6.

Table 12-5: Complying Marketshares – Excluding High-VOC Products Included in Averaging Programs – SCM Limits
(does not include small containers ≤ 1 quart)

Coating Category	SCM VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales	% of Complying Sales From Table 6-1
Flat	100	81	2,363	2,131	90%	36,144,987	33,062,690	91%	90%
Floor	250	104	411	321	78%	1,382,564	1,357,587	98%	98%
Industrial Maintenance	250	194	2,769	1,606	58%	1,897,814	1,414,348	75%	69%
Nonflat - High Gloss	250	152	312	195	63%	1,655,973	1,624,798	98%	98%
Nonflat - Low Gloss	150	118	1,100	1,056	96%	11,607,181	11,537,845	99%	99%
Nonflat - Medium Gloss	150	121	1,941	1,727	89%	18,344,120	17,769,357	97%	92%
Primer, Sealer, and Undercoater	200	123	640	541	85%	10,080,771	9,967,155	99%	98%
Quick Dry Enamel	250	254	70	46	66%	61,217	55,317	90%	7%
Quick Dry Primer, Sealer, and Undercoater	200	254	29	6	21%	110,338	45,616	41%	19%
Rust Preventative	400	362	346	286	83%	1,862,261	1,749,577	94%	94%
Specialty Primer, Sealer, and Undercoater	350	280	88	76	86%	1,972,852	1,925,514	98%	98%
Stains - Clear/Semitransparent	250	279	767	309	40%	1,330,189	962,857	72%	72%
Stains - Opaque	250	106	423	327	77%	948,346	936,390	99%	99%
Waterproofing Sealers	250	181	187	131	70%	1,511,208	1,314,980	87%	81%

Notes:

1. This table only contains sales for categories that were included in averaging programs. Bituminous Roof and Roof are categories that are eligible for averaging, but no companies reported that these types of products were averaged.
2. This table does not include products that exceeded SCM VOC limits and were included in an averaging program.
3. This table reflects complying marketshares based on SCM VOC limits.

Table 12-6 lists complying marketshares for coating categories that were included in the ARB and SCAQMD averaging programs. The table excludes high-VOC products that exceeded SCAQMD's future VOC limits and were included in averaging programs. Compliance rates were based on SCAQMD's future VOC limits that take effect in and before 2008 and the table only includes data for large containers. Since high-VOC averaged products are not included in Table 12-6, complying marketshares for some categories are higher than the overall complying marketshares provided previously in Chapter 6. For comparison purposes, the last column of the table provides the complying marketshares from Chapter 6.

Table 12-6: Complying Marketshares – Excluding High-VOC Products Included in Averaging Programs – SCAQMD Future Limits
(does not include small containers ≤ 1 quart)

Coating Category	SCM VOC Limit (g/l)	SWA VOC Reg. (g/l)	Total No. of Products	No. of Complying Products	% of Complying Products	Total Sales (gals)	Sales of Complying Products (gals)	% of Complying Sales	% of Complying Sales From Table 6-5
Flat	50	81	2,363	360	15%	36,144,987	2,390,135	7%	7%
Floor	50	102	392	34	9%	1,340,574	74,806	6%	5%
Industrial Maintenance	100	194	2,769	695	25%	1,897,814	399,934	21%	19%
Nonflat - High Gloss	50	148	304	4	1%	1,426,499	2,296	0%	0%
Nonflat - Low Gloss (Nonflat Coating)	50	118	1,100	76	7%	11,607,181	397,033	3%	3%
Nonflat - Medium Gloss (Nonflat Coating)	50	121	1,941	186	10%	18,344,120	770,455	4%	4%
Primer, Sealer, and Undercoater	100	123	640	329	51%	10,080,771	3,797,353	38%	37%
Quick Dry Enamel	50	254	70	1	1%	61,217	215	0%	0%
Quick Dry Primer, Sealer, and Undercoater	100	254	29	1	3%	110,338	25,253	23%	10%
Rust Preventative	100	362	346	11	3%	1,862,261	7,909	0%	0%
Specialty Primer, Sealer, and Undercoater (Specialty Primers)	100	280	88	23	26%	1,972,852	422,963	21%	21%
Stains, Exterior/Dual	100	204	927	101	11%	2,233,974	729,321	33%	33%
Stains, Interior	250	346	263	61	23%	44,562	14,365	32%	32%
Waterproofing Sealers	100	181	187	71	38%	1,511,208	509,315	34%	31%

Notes:

1. This table only contains sales for categories that were included in averaging programs. Bituminous Roof and Roof are categories that are eligible for averaging, but no companies reported that these types of products were averaged.
2. This table does not include products that exceeded SCM VOC limits and were included in an averaging program.
3. This table reflects complying marketshares based on SCAQMD's future VOC limits that take effect in 2008.