Appendix B:
Key Tables from 1993 Survey

The following are key tables excerpted from the final report of the ARB's 1993 architectural coatings survey, entitled *Survey of Emissions from Solvent Use, Volume II: Architectural Coatings*, September 1994.

1990 ARB AIM Coating Survey

Table 1a. California Based Companies Reporting 1990 Sales of Architectural and Industrial Maintenance Coatings

AC Products, Inc.	L. M. Scofield Company
Ameritone Paint Corporation	Lahabra Products, Inc.
Ameron PCD	Life Paint Company
Behr Process Corporation	Lyle Van Patten Company, Inc.
Benjamin Moore & Company	Major Paint Company
Bithell, Inc. / Virtrochem	Morton International, Inc.
Cal Western Paints, Inc.	Norton & Son of California, Inc.
Contract Coatings Corporation	Old Quaker Paint Company
Corchem Corporation	Parks Corporation
D. J. Simpson Company, Inc. DBA Simpson Coatings Group, Inc.	Performance Coatings, Inc.
Davis Colors	Pervo Paint Company
Davlin Paint Company	Pierce & Stevens Corporation
Decratrend Paints	Pioneer Coatings Co.
Deft, Inc.	Ponderosa Paint Co.
Devoe Coatings Co.	Preserva-Products, Inc.
Duckback Products, Inc.	Pride Paint Company
Dunn-Edwards Corporation	R. J. McGlennon Company, Inc.
Early American Paint & Varnish Company	Samuel Cabot, Inc.
Ellis Paint Co.	San Luis Paints
Epmar Corporation	Scotch Paint Corp.
Epoxylite Corporation	Sinclair Paint Company / Division of Insilco Corp.
Evr-Gard Coatings	Smiland Paint Company
Fine Line Paint Corp.	Southwest Division, Witco Corporation
Flamort Chemical Company	Spectra-Tone Paint
Frazee Industries, Inc.	Surface Protection Industries, Inc.
Flecto Company, Inc.	T. J. Westlund, Inc., DBA Humboldt Paint Factory
Fuller - O'Brien Paints (The O'Brien Corporation)	Textured Coatings of America
Guardsman Products, Inc., Coatings Group	Tresco Paint Company, Inc.
Henry Company	Triangle Coatings
Hill Brothers Chemical Company	U.S. Cellulose Co., Inc.
Hoffmann Paint Manufacturing Company	Universal Paint Corp.
J. S. Williams & Sons	W. R. Meadows of California, Inc.
Kelly-Moore Paint Company, Inc.	Western Colloid Products

1990 ARB AIM Coating Survey

Table 1b. Non-California Based Companies Reporting 1990 Sales of Architectural and Industrial Maintenance Coatings

3M	Matthews Paint Company
Absolute Coatings, Inc.	Minwax Company, Inc.
Akzo Coatings, Inc. - Georgia	Multi-Clean Division of Hako Minuteman
Akzo Coatings, Inc. - Michigan	National Polymers, Inc.
Alfa Ink Division	National Varnish Company
American Safety Technologies, Inc.	Okon, Inc.
Automotive Finishes, Inc.	Porter International (Division of Courtalds Coatings, USA)
Briner Paint Manufacturing Co., Inc.	PPG Architectural Finishes, Inc.
California Products Corporation	Pratt & Lambert, Inc.
Carbolineum Wood Perserving Co.	Proko Industries, Inc.
Champion Coatings	Rainbow Coatings Corporation
Chase Products Company	Republic Powdered Metals, Inc.
Childers Products Company	Rich Art Color Co., Inc.
Coatings for Industry, Inc.	Robinson Chemical Coatings, Inc.
Consumers Paint Factory, Inc.	Rudd Company, Inc.
Continental Products Company	Rust-Oleum Corporation
CRC Industries, Inc.	Schulte Paint Manufacturing Company, Inc.
Crescent Bronze Powder Company, Inc.	Seagrave Coatings Corporation of Virginia, Seaguard Division
Daly's, Inc.	Sheboygan Paint Company
Dampney Company, Inc.	Sherwin-Williams Company
DAP, Inc.	Sigma Coatings
Darworth Company	Somay Products, Inc.
Dexter Packaging Products Division	Southwestern Petroleum Corporation
Dyco Paints, Inc.	Standard T Chemical
Dynatron / Bondo Corporation	Star Bronze Company, Inc.
E.S.P., Inc.	Steelcote Manufacturing Company
Enerfab Corporation	Sumark - Natasco C/O MPV Company
Euclid Chemical Company	Sunnyside Corporation
Fields Corporation / American Tar Company	Tapecoat Company
Flame Control Coatings, Inc.	Tenax Finishing Products Company
Frost Paint & Oil Corporation	Texas Refinery Corporation
Gaco Western, Inc.	Thompson & Formby, Inc.
Gardner Asphalt Corp.	Thoro System Products
GC Electronics	Tnemec Company, Inc.
Gibson-Homans Company	Torginol, Inc. (Previously Peterson Chemical Corporation)
Glidden Company	Tru-Test Manufacturing Company
Gulf Coast Paint Manufacturing, Inc.	United Gilsonite Laboratories
Harco Chemical Coatings, Inc.	United Coatings, Inc.
Hartin Paint & Filler Corp.	United Paint Manufacturing Company, DBA United Coatings
Hempel Coatings (USA), Inc.	Valspar Corporation (Consumer Division)
Huntington Laboratories, Inc.	Valspar Corporation (Federal International Chem. Div.)
Hydrozo, Inc.	Valspar Corporation (Maintenance and Marine Division)
Imperial Paint Company, Inc.	Valspar Corporation (McCloskey Division)
Industrial Epoxy Coatings, Inc.	Vanex, Inc.
Iowa Paint Mfg. Co., Inc.	W.R. Grace & Co. - Conn
ITW Philadelphia Resins	Waterlox Chemical & Coatings Corporation
James B. Day & Company	Wellborn - De Corporation
Jones Blair Company	Westinghouse - Electrical Materials Division
Keeler & Long, Inc.	William Zinsser & Company, Inc.
Klinger Paint Company, Inc.	Wiltech Corporation
Kool Seal, Inc.	Wood-Kote Products
Lilly Industries, Inc. - Perfection Paint Division	Xim Products, Inc.
Mameco International, Inc.	Zehrung Corporation
Maquet Paint/McGrevor Coatings	ZRC Products Company

1990 ARB AIM Coating Survey

Table 3. Summary of 1990 California Sales of Architectural and Industrial Maintenance Coatings.

Coating Category	No. of Companies	No. of Products	Water-based Coating Sales (1,000 Gal)	Solvent-based Coating Sales (1,000 Gal)	Total 1990 Coating Sales (1,000 Gal)
Anti-Graffiti Coating	8	22	30	9	38
Below-Ground Wood Preservatives	4	4	0	37	37
Clear Wood Finishes - Lacquers	27	129	48	845	893
Clear Wood Finishes - Sanding Sealers	22	51	9	378	387
Clear Wood Finishes - Varnishes	47	348	45	816	861
Concrete Curing Compounds	6	24	169	29	197
Dry Fog Coatings	15	29	24	81	105
Fire Retardant Coating - Pigmented	7	12	7	16	23
Flats	53	1,105	32,116	61	32,177
Form-Release Compounds	4	6	4	6	10
Graphic Arts (sign) Coatings	8	165	5	528	533
High Temperature Coatings	18	54	0	13	13
Industrial Maintenance Coatings	77	1,248	241	2,837	3,078
Mastic Texture Coatings	21	86	603	172	775
Metallic Pigmented Coatings	39	125	11	355	366
Nonflats - High Gloss	44	420	687	1,330	2,017
Nonflats - Medium Gloss	51	810	12,645	1,471	14,116
Nonflats - Low Gloss	45	398	2,967	94	3,061
Nonflats - Quick Dry Enamels	19	42	1	483	484
Opaque Stains	27	130	1,528	258	1,785
Pre-treatment Wash Primers	15	21	4	18	21
Primers Sealers and Undercoaters	83	568	3,917	1,871	5,788
Quick Dry Primers, Sealers & Undercoaters	32	84	92	285	377
Roof Coatings	30	132	1,365	617	1,982
Semi-transparent Stains	46	451	574	1,163	1,736
Semi-transparent & Clear Wood Preservatives	11	66	32	231	264
Shellacs - Pigmented	4	5	0	74	74
Swimming Pool Coatings	4	4	0	3	3
Traffic Paints	30	189	1,037	3,200	4,237
Waterproofing Sealers - Clear	29	82	268	681	950
Waterproofing Sealers - Pigmented	12	18	19	55	74
Other Specialty Coatings (1)	14	55	31	88	118
Other (2)	36	113	317	156	473
All coating types pooled	174	6,996	58,796	18,260	77,057

(1) Other specialty coatings include bond breakers, clear fire retardant coatings, magnesite cement coatings, multi-color coatings, opaque wood preservatives, clear shellacs, and swimming pool repair coatings.

(2) Products not classified according to any of the ARB specified categories.

1990 ARB AIM Coating Survey

Table 4a. Estimated Emissions from 1990 California Sales of Architectural and Industrial Maintenance Coatings.

WATER-BORNE COATINGS

Coating Category	Total 1990 Coating Sales (1,000 gal.)	SW Avg. Percent Solids	SW Avg. Material VOC (1) (g/l)	SW Avg. Regulatory VOC (2) (g/l)	Estimated VOC Emissions (tons/yr)
Anti-Graffiti Coating	30	51.9	66.2	123.2	8
Clear Wood Finishes - Lacquers	48	28.5	122.9	302.1	25
Clear Wood Finishes - Sanding Sealers	9	22.6	84.3	293.6	3
Clear Wood Finishes - Varnishes	45	28.2	79.2	205.6	15
Concrete Curing Compounds	169	11.0	25.1	118.3	18
Dry Fog Coatings	24	33.3	50.2	75.6	5
Fire Retardant Coating - Pigmented	7	45.8	9.1	26.0	0
Flats	32,116	38.9	44.1	104.7	5,889
Form-Release Compounds	4	2.2	49.3	592.4	1
Graphic Arts (sign) Coatings	5	40.6	44.3	97.3	1
Industrial Maintenance Coatings	241	38.4	96.7	205.9	97
Mastic Texture Coatings	603	50.1	44.7	87.6	112
Metallic Pigmented Coatings	11	55.5	9.3	18.0	0
Nonflats - High Gloss	687	39.3	98.2	211.4	281
Nonflats - Medium Gloss	12,645	36.9	70.3	162.3	3,699
Nonflats - Low Gloss	2,967	37.1	63.6	153.5	785
Nonflats - Quick Dry Enamels	1	33.8	43.9	106.9	0
Opaque Stains	1,528	36.1	54.3	133.0	345
Pre-treatment Wash Primers	4	1.0	293.0	702.0	5
Primers Sealers and Undercoaters	3,917	35.2	44.7	116.8	729
Quick Dry Primers, Sealers & Undercoaters	92	38.3	42.2	96.8	16
Roof Coatings	1,365	44.4	36.2	67.2	206
Semi-transparent Stains	574	18.0	72.9	257.8	174
Semi-transparent & Clear Wood Preservatives	32	15.7	47.9	279.6	6
Traffic Paints	1,037	54.9	78.3	120.5	338
Waterproofing Sealers - Clear	268	9.7	20.0	158.2	22
Waterproofing Sealers - Pigmented	19	46.7	28.9	58.3	2
Other Specialty Coatings (3)	31	16.2	317.7	560.4	41
Other (4)	317	44.2	42.5	88.1	56
All coating types pooled	58,796	38.2	52.7	124.3	12,880

(1) Sales weighted average grams of volatile organic compounds (VOC) per liter of material.
(2) Sales weighted average grams of volatile organic compounds (VOC) per liter of material plus thinning solvent less water less exempt compounds.
(3) "Other specialty coatings" include bond breakers, clear fire retardant coatings, magnesite cement coatings, multi-color coatings, opaque wood preservatives, clear shellacs, and swimming pool repair coatings.
(4) Products not classified according to any of the ARB specified categories.

ble 4b. Estimated Emissions from 1990 California Sale. Architectural and Industrial Maintenance Coatings.

Solvent-Borne Coatings

Coating Category	Total 1990 Coating Sale (1,000 Gal)	SW Avg Percent Solids	SW Avg(1) Material VOC(g/l)	SW Avg VOC(2) at Max Thinning VOC (g/l)	SW Avg(3) Regulatory VOC (g/l)	SW Avg. Recomm. Thinning	Estimated VOC Emissions (tons/year) from Material	from Recomm. Thinning	Total	Total Max Thin.
Anti-Graffiti Coating	9	81.3	161	161	173	0.00	6	0	6	6
Below-Ground Wood Preservatives	37	51.4	377	377	377	0.00	58	0	58	58
Clear Wood Finishes - Lacquers	845	26.0	666	669	668	0.93	2,341	29	2,370	2,378
Clear Wood Finishes - Sanding Sealers	378	22.9	667	668	667	0.00	1,048	0	1,048	1,055
Clear Wood Finishes - Varnishes	816	44.2	432	436	434	0.00	1,467	0	1,467	1,501
Concrete Curing Compounds	29	14.0	794	794	794	0.00	94	0	94	94
Dry Fog Coatings	81	42.8	372	373	392	0.00	125	0	125	126
Fire Retardant Coating - Pigmented	16	53.0	373	373	373	0.00	25	0	25	25
Flats	61	47.0	347	359	362	0.45	88	1	89	94
Form-Release Compounds	6	31.9	597	597	597	0.00	15	0	15	15
Graphic Arts (sign) Coatings	528	60.8	412	428	412	0.22	904	4	908	977
High Temperature Coatings	13	36.6	539	556	539	0.00	30	0	30	33
Industrial Maintenance Coatings	2,837	56.5	364	390	374	1.12	4,301	117	4,418	4,859
Mastic Texture Coatings	172	58.3	186	276	274	14.96	133	94	227	230
Metallic Pigmented Coatings	355	52.9	470	472	470	0.01	694	0	694	704
Nonflats - High Gloss	1,330	61.2	313	318	348	0.56	1,734	27	1,762	1,798
Nonflats - Medium Gloss	1,471	67.4	282	283	298	0.29	1,723	16	1,738	1,746
Nonflats - Low Gloss	94	53.3	374	393	384	2.71	147	9	156	165
Nonflats - Quick Dry Enamels	483	55.5	402	403	402	0.00	808	0	808	810
Opaque Stains	258	50.9	394	405	395	0.00	422	0	422	446
Pre-treatment Wash Primers	18	8.4	729	736	740	3.67	53	2	55	56
Primers Sealers and Undercoaters	1,871	54.4	322	331	371	1.22	2,504	84	2,588	2,720
Quick Dry Primers,Sealers & Undercoaters	285	46.3	369	386	418	3.94	438	41	479	483
Roof Coatings	617	70.1	263	263	263	0.00	674	0	674	674
Semi-transparent Stains	1,163	44.3	421	421	432	0.00	2,037	0	2,037	2,038
Semi-transparent&Clear Wood Preservatives	231	50.5	367	367	367	0.00	353	0	353	353
Shellacs - Pigmented	74	33.6	523	544	544	6.14	162	17	179	179
Swimming Pool Coatings	3	31.4	572	575	572	0.00	8	0	8	8
Traffic Paints	3,200	78.9	117	118	132	0.00	1,563	0	1,563	1,565
Waterproofing Sealers - Clear	681	41.2	410	410	418	0.00	1,162	0	1,162	1,162
Waterproofing Sealers - Pigmented	55	49.0	399	399	399	0.00	92	0	92	92
Other Specialty Coatings (4)	88	30.4	567	597	588	0.00	206	0	206	269
Other (5)	156	47.5	496	497	496	0.30	322	2	324	325
All coating types pooled	18,260	57.0	339	347	355	0.66	25,737	444	26,181	27,042

(1) Sales weighted average grams of volatile organic compounds (VOC) per liter of material.
(2) Sales weighted average grams of volatile organic compounds (VOC) in material plus solvents at maximum thinning per liter of material plus solvent.
(3) Sales weighted average grams of volatile organic compounds (VOC) per liter of material plus thinning solvent less water less exempt compounds.
(4) "Other specialty coatings" include bond breakers, clear fire retardant coatings, magnesite cement coatings, multi-color coatings, opaque wood preservatives, clear shellacs, and swimming pool repair coatings.
(5) Products not classified according to any of the ARB specified categories.