

## **RULE 2.14 ARCHITECTURAL COATINGS**

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## 100 GENERAL

- 101 **PURPOSE:** To limit the quantity of volatile organic compounds (VOC) in architectural coatings supplied, sold, offered for sale, applied, solicited for application, or manufactured for use within the Yolo-Solano Air Quality Management District (District).
- 102 **APPLICABILITY:** Except as provided in Section 110, this rule is applicable to any person who supplies, sells, offers for sale, or manufactures, blends, or repackages any architectural coating for use within the District, as well as any person who applies or solicits the application of any architectural coating within the District.
- 110 **EXEMPTIONS:** The provisions of this rule shall not apply to the following:
- 110.1 Any architectural coating that is supplied, sold, offered for sale, or manufactured for use outside of the District or for shipment to other manufacturers for reformulation or repackaging.
- 110.2 Any aerosol coating product.
- 110.3 With the exception of Section 500, any architectural coating that is sold in a container with a volume of one (1) liter (1.057 quart) or less provided the following requirements are met:
- a. The coating container is not bundled together with other containers of the same specific coating category (listed in Table 1) to be sold as a unit that exceeds one liter (1.057 quarter), excluding containers packed together for shipping to a retail outlet, and
  - b. The label or any other product literature does not suggest combining multiple containers of the same specific category (listed in Table 1) so that the combination exceeds one liter (1.057 quarts).

## 200 DEFINITIONS

- 201 **ADHESIVE:** Any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.
- 202 **AEROSOL COATING PRODUCT:** A pressurized coating product containing pigments or resins that dispenses product ingredients by means of a propellant, and is packaged in a disposable can for hand-held application, or for use in specialized equipment for ground traffic/marketing applications.
- 203 **ALUMINUM ROOF COATING:** A coating labeled and formulated exclusively for application to roofs and containing at least 84 grams of elemental aluminum pigment per liter of coating (at least 0.7 pounds per gallon). Pigment content shall be determined in accordance with South Coast Air Quality Management District (SCAQMD) Method 318-95, incorporated by reference in subsection 604.

- 204 **ANTENNA COATING:** A coating labeled and formulated exclusively for application to equipment and associated structural appurtenances that are used to receive or transmit electromagnetic signals.

Effective January 1, 2018, the Antenna Coating category is eliminated.

- 205 **ANTIFOULING COATING:** A coating labeled and formulated for application to submerged stationary structures and their appurtenances to prevent or reduce the attachment of marine or freshwater biological organisms. To qualify as an antifouling coating, the coating must be registered with both the U.S. EPA under the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. Section 136, *et seq.*) and with the California Department of Pesticide Regulation.

Effective January 1, 2018, the Antifouling Coating category is eliminated.

- 206 **APPURTENANCE:** Any accessory to a stationary structure coated at the site of installation, whether installed or detached, including but not limited to: bathroom and kitchen fixtures; cabinets; concrete forms; doors; elevators; fences; hand railings; heating equipment, air conditioning equipment, and other fixed mechanical equipment or stationary tools; lampposts; partitions; pipes and piping systems; rain gutters and down spouts; stairways, fixed ladders, catwalks, and fire escapes; and window screens.

- 207 **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 for the purposes of this rule.

- 208 **BASEMENT SPECIALTY COATING:** A clear or opaque coating that is labeled and formulated for application to concrete and masonry surfaces to provide a hydrostatic seal for basements and other below-grade surfaces. Basement Specialty Coatings must meet the following criteria:

208.1 Coating must be capable of withstanding at least 10 psi of hydrostatic pressure, as determined in accordance with ASTM D7088-04, which is incorporated by reference in subsection 604; and

208.2 Coating must be resistant to mold and mildew growth and must achieve a microbial growth rating of 8 or more, as determined in accordance with ASTM D3273-00 and ASTM D3274-95, incorporated by reference in subsection 604.

- 209 **BITUMENS:** Black or brown materials including, but not limited to, asphalt, tar, pitch, and asphaltite that are soluble in carbon disulfide, consist mainly of hydrocarbons, and are obtained from natural deposits or as residues from the distillation of crude petroleum or coal.

- 210 **BITUMINOUS ROOF COATING:** A coating which incorporates bitumens that is labeled and formulated exclusively for roofing.
- 211 **BITUMINOUS ROOF PRIMER:** A primer which incorporates bitumens that is labeled and formulated exclusively for roofing and intended for the purpose of preparing a weathered or aged surface or improving the adhesion of subsequent surface components.
- 212 **BOND BREAKER:** A coating labeled and formulated for application between layers of concrete to prevent a freshly poured top layer of concrete from bonding to the layer over which it is poured.
- 213 **CLEAR BRUSHING LACQUERS:** Clear wood finishes, excluding clear lacquer sanding sealers, formulated with nitrocellulose or synthetic resins to dry by solvent evaporation without chemical reaction and to provide a solid, protective film, which are intended exclusively for application by brush, and which are labeled as specified in subsection 401.5.

Effective January 1, 2018, the Clear Brushing Lacquers coating category is eliminated.

- 214 **CLEAR WOOD COATINGS:** Clear and semi-transparent coatings, including lacquers and varnishes, applied to wood substrates to provide a transparent or translucent solid film.

Effective January 1, 2018, the Clear Wood Coatings category is eliminated.

- 215 **COATING:** A material applied onto or impregnated into a substrate for protective, decorative, or functional purposes. Such materials include, but are not limited to, paints, varnishes, sealers, and stains.
- 216 **COLORANT:** A concentrated pigment dispersion in water, solvent, and/or binder that is added to an architectural coating after packaging in sale units to produce the desired color.
- 217 **CONCRETE CURING COMPOUND:** A coating labeled and formulated for application to freshly poured concrete to perform one or more of the following functions:
- 217.1 Retard the evaporation of water; or
  - 217.2 Harden or dustproof the surface of freshly poured concrete.
- 218 **CONCRETE/MASONRY SEALER:** A clear or opaque coating that is labeled and formulated primarily for application to concrete and masonry surfaces to perform one of more of the following functions:
- 218.1 Prevent penetration of water;

- 218.2 Provide resistance against abrasion, alkalis, acids, mildew, staining, or ultraviolet light; or
- 218.3 Harden or dustproof the surface of aged or cured concrete.
- 219 **DRIVEWAY SEALER:** A coating labeled and formulated to application to worn asphalt driveway surfaces to perform one or more of the following functions:
- 219.1 Fill cracks;
- 219.2 Seal the surface to provide protection; or
- 219.3 Restore or preserve the appearance.
- 220 **DRY FOG COATING:** A coating labeled and formulated only for spray application such that overspray droplets dry before subsequent contact with incidental surfaces in the vicinity of the surface coating activity.
- 221 **EXEMPT COMPOUND:** For the purposes of this rule, **exempt compound** has the same meaning as Rule 1.1, GENERAL PROVISIONS AND DEFINITIONS.
- 222 **FAUX FINISHING COATING:** A coating labeled and formulated to meet one or more of the following criteria:
- 222.1 A glaze or textured coating used to create artistic effects including, but not limited to, dirt, suede, old age, smoke damage, and simulated marble and wood grain;
- 222.2 A decorative coating used to create a metallic, iridescent, or pearlescent appearance that contains at least 48 grams of pearlescent mica pigment or other iridescent pigment per liter of coating as applied (at least 0.4 pounds per gallon);
- 222.3 A decorative coating used to create a metallic appearance that contains less than 48 grams of elemental metallic pigment per liter of coating as applied (less than 0.4 pounds per gallon), when tested in accordance with SCAQMD Method 318-95, incorporated by reference in subsection 604;
- 222.4 A decorative coating used to create a metallic appearance that contains greater than 48 grams of elemental metallic pigment per liter of coating as applied (greater than 0.4 pounds per gallon) and which requires a clear topcoat to prevent the degradation of the finish under normal use conditions. The metallic pigment content shall be determined in accordance with SCAQMD method 318-95, incorporated by reference in subsection 604; or
- 222.5 A clear topcoat to seal and protect a Faux Finishing coating that meets the requirements of subsection 222.1, 222.2, 222.3, or 222.4. These clear topcoats must be sold and used solely as part of a Faux Finishing coating

system, and must be labeled in accordance with subsection 401.4.

223 **FIRE-RESISTIVE COATING:** A coating labeled and formulated to protect structural integrity by increasing the fire endurance of interior or exterior steel and other structural materials. The Fire-Resistive category includes sprayed fire resistive materials and intumescent fire resistive coatings that are used to bring structural materials into compliance with federal, state, and local building code requirements. Fire-Resistive coatings shall be tested in accordance with ASTM Designation E 119-07, incorporated by reference in subsection 604. Fire-Resistive coatings and testing agency must be approved by building code officials.

224 **FIRE-RETARDANT COATING:** A coating labeled and formulated to retard ignition and flame spread, that has been fire tested and rated by a testing agency approved by building code officials for use in bringing building and construction materials into compliance with federal, state and local building code requirements. The Fire-Retardant coating and the testing agency must be approved by building code officials. The Fire-Retardant coating shall be tested in accordance with ASTM Designation E 84-07, incorporated by reference in subsection 604.

Effective January 1, 2018, the Fire-Retardant coating category is eliminated and coatings with fire retardant properties will be subject to the VOC limit of their primary category (e.g., Flat, Nonflat, etc.).

225 **FLAT COATING:** A coating that is not defined under any other definition in this rule and that registers gloss less than 15 on an 85-degree meter or less than five on a 60-degree meter according to ASTM Designation D 523-89 (1999), incorporated by reference in subsection 604.

226 **FLOOR COATING:** An opaque coating that is labeled and formulated for application to flooring, including, but not limited to, decks, porches, steps, garage floors, and other horizontal surfaces which may be subject to foot traffic.

227 **FLOW COATING:** A coating labeled and formulated exclusively for use by electric power companies or their subcontractors to maintain the protective coating systems present on utility transformer units.

Effective January 1, 2018, the Flow Coating category is eliminated.

228 **FORM-RELEASE COMPOUND:** A coating labeled and formulated for application to a concrete form to prevent the freshly poured concrete from bonding to the form. The form may consist of wood, metal, or some material other than concrete.

229 **GONIOAPPARENT:** A change in appearance with a change in the angle of illumination or the angle of view, as defined according to ASTM E-284-06b, incorporated by reference in subsection 604.

Effective January 1, 2018, the Gonioapparent coating category is eliminated.



- 230 **GRAPHIC ARTS COATING OR SIGN PAINT:** A coating labeled and formulated for hand-application by artists using brush, airbrush, or roller techniques to indoor and outdoor signs (excluding structural components) and murals, including lettering enamels, poster colors, copy blockers, and bulletin enamels.
- 231 **HIGH-TEMPERATURE COATING:** A high performance coating labeled and formulated for application to substrates exposed continuously or intermittently to temperatures above 204°C (400 °F).
- 232 **INDUSTRIAL MAINTENANCE COATING:** A high performance architectural coating, including primers, sealers, undercoaters, intermediate coats, and topcoats, formulated for application to substrates, including floors, exposed to one or more of the following extreme environmental conditions listed in subsections 232.1 through 232.5, and labeled as specified in subsection 401.5:
- 232.1 Immersion in water, wastewater, or chemical solutions (aqueous and non-aqueous solutions), or chronic exposure of interior surfaces to moisture condensation;
- 232.2 Acute or chronic exposure to corrosive, caustic or acidic agents, or to chemicals, chemical fumes, or chemical mixtures or solutions;
- 232.3 Frequent exposure to temperatures above 121 °C(250 °F);
- 232.4 Frequent heavy abrasion, including mechanical wear and frequent scrubbing with industrial solvents, cleansers, or scouring agents; or
- 232.5 Exterior exposure of metal structures and structural components.
- 233 **LACQUER:** A clear or opaque wood coating, including clear lacquer sanding sealers, formulated with cellulosic or synthetic resins to dry by evaporation without chemical reaction and to provide a solid, protective film.
- Effective January 1, 2018, the Lacquer coatings category is eliminated.
- 234 **LOW SOLIDS COATING:** A coating containing 0.12 kilogram or less of solids per liter (one pound or less of solids per gallon) of coating material as recommended for application by the manufacturer. The VOC content for Low Solids Coatings shall be calculated in accordance with subsection 402.2.
- 235 **MAGNESITE CEMENT COATING:** A coating labeled and formulated for application to magnesite cement decking to protect the magnesite cement substrate from erosion by water.
- 236 **MANUFACTURER'S MAXIMUM THINNING RECOMMENDATION:** The maximum recommendation for thinning that is indicated on the label or lid of the coating container.

- 237 **MASTIC TEXTURE COATING:** A coating labeled and formulated to cover holes and minor cracks and to conceal surface irregularities, and is applied in a single coat of at least 10 mils (at least 0.010 inch) dry film thickness.
- 238 **MEDIUM DENSITY FIBERBOARD (MDF):** A composite wood product, panel, molding, or other building material composed of cellulosic fibers (usually wood) made by dry forming and pressing of a resinated fiber mat.
- 239 **METALLIC:** Similar to the appearance of a gonioapparent material, as defined herein, containing metal flakes.

Effective January 1, 2018, the Metallic coating category is eliminated.

- 240 **METALLIC PIGMENTED COATING:** A coating that is labeled and formulated to provide a metallic appearance. Metallic Pigmented Coatings must contain at least 48 grams of elemental metallic pigment (excluding zinc) per liter of coating as applied (at least 0.4 pounds per gallon), when tested in accordance with SCAQMD Method 318-95, incorporated by reference in subsection 604. The Metallic Pigmented Coating category does not include coatings applied to roofs or Zinc-Rich Primers.
- 241 **MULTI-COLOR COATING:** A coating that is packaged in a single container and that is labeled and formulated to exhibit more than one color when applied in a single coat.
- 242 **NONFLAT COATING:** A coating that is not defined under any other definition in this rule and that registers a gloss of 15 or greater on an 85-degree meter and 5 or greater on a 60-degree meter according to ASTM Designation D 523-89 (1999), incorporated by reference in subsection 604.
- 243 **NONFLAT - HIGH GLOSS COATING:** A nonflat coating that registers a gloss of 70 or above on a 60-degree meter according to ASTM Designation D 523-89 (1999), incorporated by reference in subsection 604. Nonflat-High Gloss Coatings must be labeled in accordance with 401.12.
- 244 **NONINDUSTRIAL USE:** Nonindustrial use means any use of architectural coatings except in the construction or maintenance of any of the following: facilities used in the manufacturing of goods and commodities; transportation infrastructure, including highways, bridges, airports and railroads; facilities used in mining activities, including petroleum extraction; and utilities infrastructure, including power generation and distribution, and water treatment and distribution systems.
- 245 **PARTICLEBOARD:** A composite wood product panel, molding, or other building material composed of cellulosic material (usually wood) in the form of discrete particles, as distinguished from fibers, flakes, or strands, which are pressed together with resin.

- 246 **PEARLESCENT:** Exhibiting various colors depending on the angles of illumination and viewing, as observed in mother-of-pearl.
- 247 **PLYWOOD:** A panel product consisting of layers of wood veneers or composite core pressed together with resin. Plywood includes panel products made by either hot or cold pressing (with resin) veneers to a platform.
- 248 **POST-CONSUMER COATING:** Finished coatings generated by a business or consumer that have served their intended end uses, and are recovered from or otherwise diverted from the waste stream for the purpose of recycling.
- 249 **PRE-TREATMENT WASH PRIMER:** A primer that contains a minimum of 0.5 percent acid, by weight, when tested in accordance with ASTM Designation D 1613-06, incorporated by reference in subsection 604, that is labeled and formulated for application directly to bare metal surfaces to provide corrosion resistance and to promote adhesion of subsequent topcoats.
- 250 **PRIMER, SEALER, AND UNDERCOATER:** A coating labeled and formulated for one or more of the following purposes:
- 250.1 To provide a firm bond between the substrate and the subsequent coatings;
  - 250.2 To prevent subsequent coatings from being absorbed by the substrate;
  - 250.3 To prevent harm to subsequent coatings by materials in the substrate;
  - 250.4 To provide a smooth surface for the subsequent application of coatings;
  - 250.5 To provide a clear finish coat to seal the substrate; or
  - 250.6 To block materials from penetrating into or leaching out of a substrate.
- 251 **QUICK-DRY ENAMEL:** A nonflat coating that is labeled as specified in subsection 401.9 and that is formulated to have the following characteristics:
- 251.1 Is capable of being applied directly from the container under normal conditions with ambient temperatures between 16 and 27 degrees Celsius (60 and 80 degrees Fahrenheit);
  - 251.2 When tested in accordance with ASTM Designation D 1640-95, incorporated by reference in subsection 604, sets to touch in two hours or less, is tack free in four hours or less, and dries hard in eight hours or less by the mechanical test method; and
  - 251.3 Has a dried film gloss of 70 or above on a 60 degree meter.

Effective January 1, 2018, the Quick Dry Enamel coating category is eliminated.

or undercoater that is dry to the touch in 30 minutes and can be re-coated in two hours when tested in accordance with ASTM Designation D 1640-95, incorporated by reference in subsection 604.

Effective January 1, 2018, the Quick Dry Primer, Sealer and Undercoater coating category is eliminated.

253 **REACTIVE PENETRATING SEALER:** A clear or pigmented coating that is labeled and formulated for application to above-grade concrete and masonry substrates to provide protection from water and waterborne contaminants, including, but not limited to, alkalis, acids, and salts. Reactive Penetrating Sealers must penetrate into concrete and masonry substrates and chemically react to form covalent bonds with naturally occurring minerals in the substrate. Reactive Penetrating Sealers line the pores of concrete and masonry substrates with a hydrophobic coating, but do not form a surface film. Reactive Penetrating Sealers must meet all of the following criteria:

253.1 The Reactive Penetrating Sealer must improve water repellency at least 80 percent after application on a concrete or masonry substrate. This performance must be verified on standardized test specimens, in accordance with one or more of the following standards, incorporated by reference in subsection 604: ASTM C67-07, or ASTM C97-02, or ASTM C140-06; and

253.2 The Reactive Penetrating Sealer must not reduce the water vapor transmission rate by more than two percent after application on a concrete or masonry substrate. This performance must be verified on standardized test specimens, in accordance with ASTM E96/E96M-05, incorporated by reference in subsection 604; and

253.3 Products labeled and formulated for vehicular traffic surface chloride screening applications must meet the performance criteria listed in the National Cooperative Highway Research Report 244 (1981), incorporated by reference in subsection 604.

Reactive Penetrating Sealers must be labeled in accordance with subsection 401.10.

254 **RECYCLED COATING:** An architectural coating formulated such that it contains a minimum of 50% by volume post-consumer coating, with coating maximum of 50% by volume secondary industrial materials or virgin materials.

255 **RESIDENTIAL:** Areas where people reside or lodge, including, but not limited to, single and multiple family dwellings, condominiums, mobile homes, apartment complexes, motels, and hotels.

256 **ROOF COATING:** A non-bituminous coating labeled and formulated exclusively for application to roofs for the primary purpose of preventing water penetration, reflecting ultraviolet light, or reflecting solar radiation.

257 **RUST PREVENTATIVE COATING:** A coating formulated exclusively to

prevent the corrosion of metal surfaces for one or more of the following applications:

257.1 Direct-to-metal coating; or

257.2 Coating intended for application over rusty, previously coated surfaces.

The Rust Preventative category does not include the following:

257.3 Coatings that are required to be applied as a topcoat over a primer; or

257.4 Coatings that are intended for use on wood or any other nonmetallic surface.

Rust Preventative coatings are for metal substrates only and must be labeled as such, in accordance with the labeling requirements in subsection 401.7.

- 258 **SANDING SEALER:** A clear or semi-transparent wood coating labeled and formulated for application to bare wood to seal the wood and to provide a coat that can be abraded to create a smooth surface for subsequent applications of coatings. A sanding sealer that also meets the definition of a lacquer is not included in this category, but is included in the lacquer category.

Effective January 1, 2018, the Sanding Sealer coating category is eliminated.

- 259 **SECONDARY INDUSTRIAL MATERIALS:** Products or by-products of the paint manufacturing process that are of known composition and have economic value, but can no longer be used for their intended purpose.
- 260 **SEMITRANSSPARENT COATING:** A coating that contains binders and colored pigments and is formulated to change the color of the surface, but not conceal the grain pattern or texture.
- 261 **SHELLAC:** A clear or opaque coating formulated solely with the resinous secretions of the lac beetle (*Lacifer lacca*), thinned with alcohol, and formulated to dry by evaporation without a chemical reaction.
- 262 **SHOP APPLICATION:** Application of a coating to a product or a component of a product in or on the premises of a factory or a shop as part of a manufacturing, production, or repairing process (e.g., original equipment manufacturing coatings).
- 263 **SOLICIT:** To require for use or to specify, by written or oral contract.
- 264 **SPECIALTY PRIMER, SEALER, AND UNDERCOATER:** A coating that is formulated for application to a substrate to block water-soluble stains resulting from: fire, smoke damage; or water damage.

Specialty Primers, Sealers, and Undercoaters must be labeled as specified in subsection 401.8.

- 265 **STAIN:** A semitransparent or opaque coating labeled and formulated to change the color of a surface but not conceal the grain pattern or texture.
- 266 **STONE CONSOLIDANT:** A coating that is labeled and formulated for application to stone substrates to repair historical structures that have been damaged by weathering or other decay mechanisms. Stone Consolidants must penetrate into stone substrates to create bonds between particles and consolidate deteriorated material. Stone Consolidants must be specified and used in accordance with ASTM E2167-01, incorporated by reference in subsection 604.
- Stone Consolidants are for professional use only and must be labeled as such, in accordance with the labeling requirements in subsection 401.11.
- 267 **SWIMMING POOL COATING:** A coating labeled and formulated to coat the interior of swimming pools and to resist swimming pool chemicals. Effective January 1, 2018, Swimming Pool Coatings include coatings used for swimming pool repair and maintenance.
- 268 **SWIMMING POOL REPAIR AND MAINTENANCE COATING:** A rubber based coating labeled and formulated to be used over existing rubber based coatings for the repair and maintenance of swimming pools.
- Effective January 1, 2018, the Swimming Pool Repair and Maintenance Coating category is eliminated.
- 269 **TEMPERATURE-INDICATOR SAFETY COATING:** A coating labeled and formulated as a color-changing indicator coating for the purpose of monitoring the temperature and safety of the substrate, underlying piping, or underlying equipment, and for application to substrates exposed continuously or intermittently to temperatures above 204 degrees Celsius (400 degrees Fahrenheit).
- Effective January 1, 2018, the Temperature-Indicator Safety Coating category is eliminated.
- 270 **TINT BASE:** An architectural coating to which colorant is added after packaging in sale units to produce a desired color.
- 271 **TRAFFIC MARKING COATING:** A coating labeled and formulated for marking and striping streets, highways, or other traffic surfaces including, but not limited to, curbs, berms, driveways, parking lots, sidewalks, and airport runways.
- 272 **TUB AND TILE REFINISH COATING:** A clear or opaque coating that is labeled and formulated exclusively for refinishing the surface of a bathtub, shower, sink, or countertop. Tub and Tile Refinish coatings must meet all of the following criteria:
- 272.1 The coating must have a scratch hardness of 3H or harder and a gouge hardness of 4H or harder. This must be determined on bonderite 1000, in accordance with ASTM D3363-05, incorporated by reference in subsection

604; and

272.2 The coating must have a weight loss of 20 milligrams or less after 1000 cycles. This must be determined with CS-17 wheels on bonderite 1000, in accordance with ASTM D4060-07, incorporated by reference in subsection 604; and

272.3 The coating must withstand 1000 hours or more of exposure with few or no #8 blisters. This must be determined on unscribed bonderite, in accordance with ASTM D4585-99, and ASTM D714- 02e1, incorporated by reference in subsection 604; and

272.4 The coating must have an adhesion rating of 4B or better after 24 hours of recovery. This must be determined on unscribed bonderite, in accordance with ASTM D4585-99 and ASTM D3359-02, incorporated by reference in subsection 604.

273 **VARNISH:** A clear or semi-transparent wood coating, excluding lacquers and shellacs, formulated to dry by chemical reaction on exposure to air. Varnishes may contain small amounts of pigment to color a surface, or to control the final sheen or gloss of the finish.

Effective January 1, 2018, the Varnish coatings category is eliminated.

274 **VENEER:** Thin sheets of wood peeled or sliced from logs for use in the manufacture of wood products such as plywood, laminated veneer lumber, or other products.

275 **VIRGIN MATERIALS:** Materials that contain no post-consumer coatings or secondary industrial materials.

276 **VOLATILE ORGANIC COMPOUND (VOC):** For the purposes of this rule, ■volatile organic compound• has the same meaning as in Rule 1.1, GENERAL PROVISIONS AND DEFINITIONS.

277 **VOC ACTUAL:** The weight of VOC per volume of coating, calculated according to the procedures specified in Section 402.2.

278 **VOC CONTENT:** The weight of VOC per volume of coating. VOC Content is VOC Regulatory for all coatings except those in the Low Solids category. For coatings in the Low Solids category, the VOC content is VOC Actual. For multi-component products, the VOC content is VOC Regulatory as mixed or catalyzed. For coatings containing silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing.

279 **VOC REGULATORY:** The weight of VOC per volume of coating, less the volume of water and exempt compounds, calculated according to the procedures specified in Section 402.1.

280 **WATERPROOFING MEMBRANE:** A clear or opaque coating that is labeled and formulated for application to concrete and masonry surfaces to provide a seamless waterproofing membrane that prevents any penetration of liquid water into the substrate. Waterproofing Membranes are intended for the following waterproofing applications: below-grade surfaces, between concrete slabs, inside tunnels, inside concrete planters, and under flooring materials. Waterproofing Membranes must meet the following criteria:

280.1 Coating must be applied in a single coat of at least 25 mils (at least 0.025 inch) dry film thickness; and

280.2 Coatings must meet or exceed the requirements contained in ASTM C836-06, incorporated by reference in subsection 604.

The Waterproofing Membrane category does not include topcoats that are included in the Concrete/Masonry Sealer category (e.g., parking deck topcoats, pedestrian deck topcoats, etc.).

281 **WATERPROOFING SEALER:** A coating labeled and formulated for application to a porous substrate for the primary purpose of preventing the penetration of water.

Effective January 1, 2018, the Waterproofing Sealer coating category is eliminated.

282 **WATERPROOFING CONCRETE/MASONRY SEALER:** A clear or pigmented film-forming coating that is labeled and formulated for sealing concrete and masonry to provide resistance against water, alkalis, acids, ultraviolet light, and staining.

Effective January 1, 2018, the Waterproofing Concrete/Masonry Sealer coating category is eliminated.

283 **WOOD COATINGS:** Coatings labeled and formulated for application to wood substrates only. The Wood Coatings category includes the following clear and semitransparent coatings: lacquers; varnishes; sanding sealers; penetrating oils; clear stains; wood conditioners used as undercoats; and wood sealers used as topcoats. The Wood Coatings category also includes the following opaque wood coatings: opaque lacquers; opaque sanding sealers; and opaque lacquer undercoats. The Wood Coatings category does not include the following: clear sealers that are labeled and formulated for use on concrete/masonry surfaces; or coatings intended for substrates other than wood.

Wood Coatings must be labeled “For Wood Substrates Only” in accordance with the labeling requirements in section 401.13

284 **WOOD PRESERVATIVE:** A coating labeled and formulated to protect exposed wood from decay or insect attack, that is registered with both the U.S. EPA under the Federal Insecticide, Fungicide, and Rodenticide Act (7 United States Code



(U.S.C.) Section 136, *et seq.*) and with the California Department of Pesticide Regulation.

285 **WOOD SUBSTRATE:** A substrate made of wood, particleboard, plywood, medium density fiberboard, rattan, wicker, bamboo, or composite products with exposed wood grain. Wood Products do not include items comprised of simulated wood.

286 **ZINC-RICH PRIMER:** A coating that meets all of the following specifications:

286.1 Coating contains at least 65 percent metallic zinc powder or zinc dust by weight of total solids; and

286.2 Coating is formulated for application to metal substrates to provide a firm bond between the substrate and subsequent applications of coatings; and

286.3 Coating is intended for professional use only and is labeled as such, in accordance with the labeling requirements in subsection 401.14.

### 300 STANDARDS

301 **VOC CONTENT LIMITS:** Except as provided in subsections 302 or 303 no person shall: (i) manufacture, blend, or repackage for sale within the District; (ii) supply, sell, or offer for sale within the District; or (iii) solicit for application or apply within the District, any architectural coating with a VOC content in excess of the corresponding limit specified in the Table 1, after the specified effective dates.

Limits are expressed as VOC Regulatory, thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.

<b>TABLE 1 VOC LIMITS</b> <b>(Effective Through 12/31/2017)</b> (grams/liter)	
<b>Coating Category</b>	<b>Effective 1/1/2004</b>
Flat Coatings	100
Nonflat Coatings	150
Nonflat-High Gloss Coatings	250
<b>Specialty Coatings:</b>	
Antenna Coatings	530
Antifouling Coatings	400
Bituminous Roof Coatings	300
Bituminous Roof Primers	350
Bond Breakers	350
Clear Wood Coatings:	
Clear Brushing Lacquers	680
Lacquers (including lacquer sanding sealers)	550

<b>TABLE 1 VOC LIMITS (Effective Through 12/31/2017) (grams/liter)</b>	
<b>Coating Category</b>	<b>Effective 1/1/2004</b>
Sanding Seals (other than lacquer sanding sealers)	350
Varnishes	350
Concrete Curing Compounds	350
Dry Fog Coatings	400
Faux Finishing Coatings	350
Fire Resistive Coatings	350
Clear Fire-Retardant Coatings	650
Opaque Fire-Retardant Coatings	350
Floor Coatings	250
Flow Coatings	420
Form-Release Compounds	250
Graphic Arts Coatings (Sign Paints)	500
High Temperature Coatings	420
Industrial Maintenance Coatings	250
Low Solids Coatings <sup>1</sup>	120
Magnesite Cement Coatings	450
Mastic Texture Coatings	300
Metallic Pigmented Coatings	500
Multi-Color Coatings	250
Pre-Treatment Wash Primers	420
Primers, Sealers, & Undercoaters	200
Quick-Dry Enamels	250
Quick-Dry Primers, Sealers & Undercoaters	200
Recycled Coatings	250
Roof Coatings	250
Rust Preventative Coatings	400
Shellacs (Clear)	730
Shellacs (Opaque)	550
Specialty Primers/Sealers & Undercoaters	350
Stains	250
Swimming Pool Coatings	340
Swimming Pool Repair & Maintenance	340
Temperature-Indicator Safety Coatings	550
Traffic Marking Coatings	150
Waterproofing Sealers	250
Waterproofing Concrete/Masonry Sealers	400
Wood Preservatives	350

<b>TABLE 1</b>	
<b>VOC LIMITS (Effective Beginning 1/1/2018)</b>	
(grams/liter)	
<b>Coating Category</b>	<b>Effective 1/1/2018</b>
Flat Coatings	50
Nonflat Coatings	100
Nonflat-High Gloss Coatings	150
<b>Specialty Coatings:</b>	
Aluminum Roof Coatings	400
Basement Specialty Coatings	400
Bituminous Roof Coatings	50
Bituminous Roof Primers	350
Bond Breakers	350
Concrete Curing Compounds	350
Concrete/Masonry Sealers	100
Driveway Sealers	50
Dry Fog Coatings	150
Faux Finishing Coatings	350
Fire Resistive Coatings	350
Floor Coatings	100
Form-Release Compounds	250
Graphic Arts Coatings (Sign Paints)	500
High Temperature Coatings	420
Industrial Maintenance Coatings	250
Low Solids Coatings <sup>1</sup>	120
Magnesite Cement Coatings	450
Mastic Texture Coatings	100
Metallic Pigmented Coatings	500
Multi-Color Coatings	250
Pre-Treatment Wash Primers	420
Primers, Sealers, & Undercoaters	100
Reactive Penetrating Sealers	350
Recycled Coatings	250
Roof Coatings	50
Rust Preventative Coatings	250
Shellacs (Clear)	730
Shellacs (Opaque)	550
Specialty Primers/Sealers & Undercoaters	100
Stains	250
Stone Consolidants	450
Swimming Pool Coatings	340
Traffic Marking Coatings	100
Tub and Tile Refinish Coatings	420
Waterproofing Membranes	250

<b>TABLE 1</b> <b>VOC LIMITS (Effective Beginning 1/1/2018)</b> (grams/liter)	
<b>Coating Category</b>	<b>Effective 1/1/2018</b>
Wood Coatings	275
Wood Preservatives	350
Zinc-Rich Primers	340

<sup>1</sup> Limit is expressed as VOC Actual

Conversion factor: one (1) pound VOC per gallon (U.S.) = 119.95 grams VOC per liter.

302 **MOST RESTRICTIVE VOC LIMIT:** If anywhere on the container of any architectural coating, or any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on its behalf, any representation is made that indicates that the coating meets the definition of or is recommended for use for more than one of the coating categories listed in TABLE 1, then the most restrictive VOC content limit shall apply. This provision does not apply to the coating categories specified in subsections 302.1 through 302.12.

- 302.1 Metallic pigmented coatings.
- 302.2 Shellacs.
- 302.3 Pretreatment wash primers.
- 302.4 Industrial maintenance coatings.
- 302.5 Low-solids coatings.
- 302.6 Wood preservatives.
- 302.7 High temperature coatings.
- 302.8 Bituminous roof primers.
- 302.9 Specialty primers, sealers, and undercoaters.
- 302.10 Aluminum roof coatings.
- 302.11 Zinc-rich primers.
- 301.12 Wood Coatings.

303 **SELL-THROUGH OF COATINGS:** A coating manufactured prior to the January 1, 2018 effective date specified for that coating in TABLE 1 that complied with the standards in effect at the time the coating was manufactured, may be sold, supplied, or offered for sale for up to three years after the specified effective date. In addition, a coating manufactured before the effective date specified for that coating in TABLE 1 may be applied at any time, both before and after the specified effective date, so long as the coating complied with the standards in effect at the time the coating was manufactured. This subsection 303 does not apply to any coating that does not display the date or date-code required by subsection 401.1.

304 **PAINTING PRACTICES:** All architectural coating containers used to apply the contents therein to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers. Containers of any

VOC-containing materials used for thinning and cleanup shall also be closed when not in use.

305 **THINNING:** No person who applies or solicits the application of any architectural coating shall apply a coating that is thinned to exceed the applicable VOC limit specified in TABLE 1.

306 **COATINGS NOT LISTED IN TABLE 1:** For any coating that does not meet any of the definitions for the specialty coatings categories listed in TABLE 1, the VOC content limit shall be determined by classifying the coating as a flat coating, a nonflat coating, or a nonflat-high gloss coating, based on its gloss, as defined in subsections 225, 242, and 243 and the corresponding flat, nonflat, or nonflat-high gloss VOC limit shall apply.

#### 400 ADMINISTRATIVE REQUIREMENTS

401 **CONTAINER LABELING REQUIREMENTS:** Each manufacturer of any architectural coating subject to this rule shall display the information listed in subsections 401.1 through 401.14 on the coating container (or label) in which the coating is sold or distributed.

401.1 **Date Code:** The date the coating was manufactured, or a date code representing the date, shall be indicated on the label, lid, or bottom of the container. If the manufacturer uses a date code for any coating, the manufacturer shall file an explanation of each code with the Executive Officer of the California Air Resources Board (ARB), and shall make the explanation of each code available to the Air Pollution Control Officer (APCO) upon request.

401.2 **Thinning Recommendations:** A statement of the manufacturer's recommendation regarding thinning of the coating shall be indicated on the label or lid of the container. This requirement does not apply to the thinning of architectural coatings with water. If thinning of the coating prior to use is not necessary, the recommendation must specify that the coating is to be applied without thinning.

401.3 **VOC Content:** Each container of any coating subject to this rule shall display one of the following values in grams of VOC per liter of coating:

- a. Maximum VOC content as determined from all potential product formulations; or
- b. VOC content as determined from actual formulation data; or
- c. VOC content as determined using the test methods in section 601.

If the manufacturer does not recommend thinning, the container must display the VOC content, as supplied. If the manufacturer recommends

thinning, the container must display the VOC content, including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multicomponent product, the container must display the VOC content as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOCs during the curing process, the VOC content must include the VOCs emitted during curing. VOC content shall be determined as defined in sections 277, 278, and 279.

- 401.4 **Faux Finishing Coatings:** The labels of all clear topcoat Faux Finishing coatings shall prominently display the statement ■This product can only be sold or used as part of a Faux Finishing coating system.●
- 401.5 **Industrial Maintenance Coatings:** The labels of all Industrial Maintenance coatings shall prominently display the statement “For industrial use only” or “For professional use only”.
- 401.6 **Clear Brushing Lacquers:** The labels of all clear brushing lacquers shall prominently display the statements “For brush application only” and “This product must not be thinned or sprayed”.
- 401.7 **Rust Preventative Coatings:** The labels of all rust preventative coatings shall prominently display the statement ■For Metal Substrates Only.●
- 401.8 **Specialty Primers, Sealers, and Undercoaters:** Until January 1, 2018, the labels of all specialty primers, sealers, and undercoaters shall prominently display one or more of the descriptions listed in Subsection 401.8.a through 401.8.c.
- a. For fire-damaged substrates.
  - b. For smoke-damaged substrates.
  - c. For water-damaged substrates.
- 401.9 **Quick Dry Enamels:** The labels of all quick dry enamels shall prominently display the words “Quick Dry” and the dry hard time.
- 401.10 **Reactive Penetrating Sealers:** The labels of all Reactive Penetrating Sealers shall prominently display the statement “Reactive Penetrating Sealer”.
- 401.11 **Stone Consolidants:** The labels of all Stone Consolidants shall prominently display the statement “Stone Consolidant – For Professional Use Only”.
- 401.12 **Nonflat-High Gloss Coatings:** The labels of all nonflat-high gloss coatings shall prominently display the words ■High Gloss.●

401.13 **Wood Coatings:** The labels of all Wood Coatings shall prominently display the statement “For Wood Substrates Only”.

401.14 **Zinc Rich Primers:** The labels of all Zinc Rich Primers shall prominently display the statement “For Professional Use Only”.

402 **CALCULATION OF VOC CONTENT:** For the purpose of determining compliance with the VOC content limits in TABLE 1, the VOC content of a coating shall be determined by using the procedures described in subsection 402.1 or 402.2, as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured.

402.1 With the exception of low solids coatings, determine the VOC content in grams of VOC per liter of coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water and exempt compounds. Determine the VOC content using the following equation:

$$\text{VOC Regulatory} = \frac{W_s - W_w - W_{ec}}{V_m - V_w - V_{ec}}$$

where:

VOC Regulatory = grams of VOC per liter of coating

$W_s$  = weight of volatiles, in grams

$W_w$  = weight of water, in grams

$W_{ec}$  = weight of exempt compounds, in grams

$V_m$  = volume of coating, in liters

$V_w$  = volume of water, in liters

$V_{ec}$  = volume of exempt compounds, in liters.

402.2 For low solids coatings, determine the VOC content in units of grams of VOC per liter of coating thinned to the manufacturer's maximum recommendation, including the volume of any water and exempt compounds. Determine the VOC content using the following equation:

$$\text{VOC Actual} = \frac{W_s - W_w - W_{ec}}{V_m}$$

where:

VOC Actual = the VOC content of a low solids coating in grams of VOC per liter of coating

$W_s$  = weight of volatiles, in grams

$W_w$  = weight of water, in grams

$W_{ec}$  = weight of exempt compounds, in grams

$V_m$  = volume of coating, in liters.

## 500 MONITORING AND RECORDS

501 **REPORTING REQUIREMENTS - SALES DATA:** A responsible official from each manufacturer shall upon request of the Executive Officer of the ARB, or his or her delegate, provide data concerning the distribution and sales of architectural coatings. The responsible official shall within 180 days of written notification provide information, including, but not limited to:

501.1. The name and mailing address of the manufacturer;

501.2. The name, address and telephone number of a contact person;

501.3. The name of the coating product as it appears on the label and the applicable coating category;

501.4. Whether the product is marketed for interior or exterior use or both;

501.5. The number of gallons sold in California in containers greater than one liter (1.057 quart) and equal to or less than one liter (1.057 quart);

501.6. The VOC Actual content and VOC Regulatory content in grams per liter. If thinning is recommended, list the VOC Actual content and VOC Regulatory content after maximum recommended thinning. If containers less than one liter have a different VOC content than containers greater than one liter, list separately. If the coating is a multi-component product, provide the VOC content as mixed or catalyzed;

501.7. The names and CAS numbers of the VOC constituents in the product;

501.8. The names and CAS numbers of any compounds in the product specifically exempted from the VOC definition, as listed in subsection 276 and 221;

501.9. Whether the product is marketed as solventborne, waterborne, or 100% solids;

501.10. Description of resin or binder in the product;

501.11. Whether the coating is a single-component or multi-component product;

501.12. The density of the product in pounds per gallon;

501.13. The percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition, as listed in subsection 276 and 221; and

501.14. The percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition, as listed in subsection 276 and 221.

501.2 All sales data listed in subsection 501.1 shall be maintained by the responsible official for a minimum of three years. Sales data submitted by the responsible



official to the Executive Officer of the ARB may be claimed as confidential, and such information shall be handled in accordance with the procedures specified in Title 17, California Code of Regulations Sections 91000-91022.

- 501.3 All sales data listed in subsection 501.1 shall be provided, upon request, to the APCO by each retailer selling coatings within the District. Sales data submitted by the responsible official to the APCO may be claimed as confidential pursuant to District Rule 1.1 – GENERAL PROVISIONS AND DEFINITIONS, Section 237, and will be handled in accordance with Rule 1.1, sections 232 and 237.

## 600 TEST METHODS

- 601 **VOC CONTENT OF COATINGS:** To determine the physical properties of a coating in order to perform the calculations in Section 402, the reference method for VOC content is U.S. EPA Method 24, incorporated by reference in subsection 604, except as provided in subsections 602 and 603.

An alternative method to determine the VOC content of coatings is SCAQMD Method 304-91 (Revised February 1996), incorporated by reference in subsection 604.

The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised August 1996), Bay Area Air Quality Management District (BAAQMD) Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable, incorporated by reference in subsection 604.

To determine the VOC content of a coating, the manufacturer may use U.S. EPA Method 24, or an alternative method as provided in Section 602, formulation data, or any other reasonable means for predicting that the coating has been formulated as intended (e.g., quality assurance checks, recordkeeping).

However, if there are any inconsistencies between the results of a Method 24 test and any other means for determining VOC content, the Method 24 test results will govern, except when an alternative method is approved as specified in Section 602.

The APCO may require the manufacturer to conduct a Method 24 analysis.

- 602 **ALTERNATIVE TEST METHODS:** Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with Section 601, after review and approved in writing by the staffs of the District, the ARB, and the U.S. EPA, may also be used.
- 603 **METHACRYLATE TRAFFIC MARKING COATINGS:** Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of U.S. EPA Method 24 (Title 40 Code of Federal Regulations (CFR 59, subpart D, appendix A), incorporated by reference in subsection 604. This method has not been approved for methacrylate multicomponent coatings used for other purposes than as traffic marking coatings

or for other classes of multicomponent coatings.

604 **TEST METHODS INCORPORATED BY REFERENCE:** The following test methods are incorporated by reference herein, and shall be used to test coatings subject to the provisions of this rule:

604.1 **Flame Spread Index:** The flame spread index of a fire-retardant coating shall be determined by ASTM Designation E 84-07, Standard Test Method for Surface Burning Characteristics of Building Materials (see Section 224, Fire-Retardant Coating).

604.2 **Fire Resistance Rating:** The fire resistance rating of a fire-resistive coating shall be determined by ASTM Designation E 119-07, Standard Test Methods for Fire Tests of Building Construction Materials (see Section 223, Fire-Resistive Coating).

604.3 **Gloss Determination:** The gloss of a coating shall be determined by ASTM Designation D 523-89 (1999), Standard Test Method for Specular Gloss (see Sections 225 Flat Coating, 242 Nonflat Coating, and 243, Nonflat-High Gloss Coating).

604.4 **Metal Content of Coatings:** The metallic content of a coating shall be determined by SCAQMD Method 318-95, Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction, *South Coast Air Quality Management District Laboratory Methods of Analysis for Enforcement Samples* (see Section 240, Metallic Pigmented Coating).

604.5 **Acid Content of Coatings:** The acid content of a coating shall be determined by ASTM Designation D 1613-06, Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products (see Section 249, Pre-treatment Wash Primer).

604.6 **Exempt Compounds-Siloxanes:** Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with section 601 by BAAQMD Method 43, Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials, *BAAQMD Manual of Procedures*, Volume III, adopted November 6, 1996 (see Section 276, Volatile Organic Compound, and Section 601).

604.7 **Exempt Compounds-Parachlorobenzotrifluoride (PCBTF):** The exempt compound parachlorobenzotrifluoride, shall be analyzed as an exempt compound for compliance with section 601 by BAAQMD Method 41, Determination of Volatile Organic Compounds in Solvent Based Coatings and Related Materials Containing Parachlorobenzotrifluoride, *BAAQMD Manual of Procedures*, Volume III, adopted December 20, 1995 (see Section 276, Volatile Organic Compound, and Section 601).

- 604.8 **Exempt Compounds:** The content of compounds exempt under U.S. EPA Method 24 shall be analyzed by SCAQMD Method 303-91 (Revised 1996), Determination of Exempt Compounds, *SCAQMD Laboratory Methods of Analysis for Enforcement Samples* (see Section 276, Volatile Organic Compound and Section 601).
- 604.9 **VOC Content of Coatings:** The VOC content of a coating shall be determined by U.S. EPA Method 24 as it exists in title 40 CFR part 60, appendix A, Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings (see Section 601).
- 604.10 **Alternative VOC Content of Coatings:** The VOC content of coatings may be analyzed either by U.S. EPA Method 24 or SCAQMD Method 304-91 (Revised 1996), Determination of Volatile Organic Compounds (VOC) in Various Materials, *SCAQMD Laboratory Methods of Analysis for Enforcement Samples* (see Section 601).
- 604.11 **Methacrylate Traffic Marking Coatings:** The VOC content of methacrylate multicomponent coatings used as traffic marking coatings shall be analyzed by the procedures in title 40 CFR part 59, subpart D, appendix A, Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings (see Section 601).
- 604.12 **Hydrostatic Pressure for Basement Specialty Coatings:** ASTM D7088-04, “Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry” (see section 208, Basement Specialty Coating).
- 604.13 **Gonioapparent Characteristics for Coatings:** ASTM E-284-07, “Standard Terminology of Appearance” (see section 229, Gonioapparent).
- Effective January 1, 2018, this test method is no longer incorporated by reference.
- 604.14 **Tub and Tile Refinish Coating Adhesion:** ASTM D 4585-99, “Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation” and ASTM D3359-02, “Standard Test Methods for Measuring Adhesion by Tape Test” (see section 272, Tub and Tile Refinish Coating).
- 604.15 **Tub and Tile Refinish Coating Hardness:** ASTM D 3363-05, “Standard Test Method for Film Hardness by Pencil Test” (see section 272, Tub and Tile Refinish Coating).
- 604.16 **Tub and Tile Refinish Coating Abrasion Resistance:** ASTM D 4060-07, “Standard Test Methods for Abrasion Resistance of Organic Coatings by the Taber Abraser” (see section 272, Tub and Tile Refinish Coating).

- 604.17 **Tub and Tile Refinish Coating Water Resistance:** ASTM D 4585-99, “Standard Practice for Testing Water Resistance of Coatings Using Controlled Condensation” and ASTM D714-02e1, “Standard Test Method for Evaluating Degree of Blistering of Paints” (see section 272, Tub and Tile Refinish Coating).
- 604.18 **Waterproofing Membrane:** ASTM C836-06, “Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course” (see section 280, Waterproofing Membrane).
- 604.19 **Mold and Mildew Growth for Basement Specialty Coatings:** ASTM D3273-00, “Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber” and ASTM D3274-95, “Standard Test Method for Evaluating Degree of Surface Disfigurement of Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation” (see section 208, Basement Specialty Coating).
- 604.20 **Reactive Penetrating Sealer Water Repellency:** ASTM C67-07, “Standard Test Methods for Sampling and Testing Brick and Structural Clay Tile”; or ASTM C97-02, “Standard Test Methods for Absorption and Bulk Specific Gravity of Dimension Stone”; or ASTM C140-06, “Standard Test Methods for Sampling and Testing Concrete Masonry Units and Related Units” (see section 253, Reactive Penetrating Sealer).
- 604.21 **Reactive Penetrating Sealer Water Vapor Transmission:** ASTM E96/E96M-05, “Standard Test Method for Water Vapor Transmission of Materials” (see section 253, Reactive Penetrating Sealer).
- 604.22 **Reactive Penetrating Sealer - Chloride Screening Applications:** National Cooperative Highway Research Report 244 (1981), “Concrete Sealers for the Protection of Bridge Structures” (see section 253, Reactive Penetrating Sealer).
- 604.23 **Stone Consolidants:** ASTM E2167-01, “Standard Guide for Selection and Use of Stone Consolidants” (see section 266, Stone Consolidant).