RULE 4601  ARCHITECTURAL COATINGS (Adopted April 11, 1991; Amended December 17, 1992; Amended September 17, 1997; Amended October 31, 2001; Amended December 17, 2009; Amended [date of rule adoption])

1.0 Purpose

The purpose of this rule is to limit VOC emissions from architectural coatings. This rule specifies architectural coatings storage, cleanup, and labeling requirements.

2.0 Applicability

This rule is applicable to any person who supplies, markets, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures, blends or repackages any architectural coating for use within the District.

3.0 Definitions

3.1 Adhesive: Any chemical substance that is applied for the purpose of bonding two surfaces together other than by mechanical means.

3.2 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/marking applications.

3.3 Air Pollution Control Officer (APCO): as defined in Rule 1020 (Definitions).

3.4 Air Resources Board (ARB or CARB): as defined in Rule 1020 (Definitions).

3.5 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 SCAQMD Method 318-95, incorporated by reference in Section 6.3.89.

3.6 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, 2011, the Antenna coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.7 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, 2011, the Antifouling coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.86 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 downspouts; stairways, fixed ladders, catwalks, and fire escapes; and window screens.

3.97 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.

3.108 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:

3.108.1 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 Section 6.3.187.

3.108.2 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 (2017), incorporated by reference in Section 6.3.243.

3.119 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.

3.120 Bituminous Roof Coating: A coating which incorporates bitumens that is labeled and formulated exclusively for roofing.
3.131 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 adhesion of subsequent surface components.

3.142 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.

3.13 Building Envelope: The ensemble of exterior and demising partitions of a building that enclose conditioned space.

3.14 Building Envelope Coating: The fluid applied coating applied to the building envelope to provide a continuous barrier to air or vapor leakage through the building envelope that separates conditioned from unconditioned spaces. Building Envelope Coatings are applied to diverse materials including, but not limited to, concrete masonry units (CMU), oriented strand board (OSB), gypsum board, and wood substrates and must meet the following performance criteria:

3.14.1 Air Barriers formulated to have an air permeance not exceeding 0.004 cubic feet per minute per square foot under a pressure differential of 1.57 pounds per square foot (0.004 cfm/ft² @ 1.57 psf), [0.02 liters per square meter per second under a pressure differential of 75 Pa (0.02 L/(s m²) @ 75 Pa)] when tested in accordance with ASTM E2178-13, incorporated by reference in subsection 6.3.28; and/or

3.14.2 Water Resistant Barriers formulated to resist liquid water that has penetrated a cladding system from further intruding into the exterior wall assembly and is classified as follows:

3.13.2.1 Passes water resistance testing accordance to ASTM E331-00 (2016), incorporated by reference in subsection 6.3.29 and

3.13.2.2 Water vapor permeance is classified in accordance with ASTM E96/96M-16, incorporated by reference in subsection 6.3.30.

3.15 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 Section 6.1. Effective January 1, 2011, the Clear Brushing Lacquers coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.16 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, 2011, the Clear Wood coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.175 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.

3.186 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. Colorants must be labeled in accordance with Section 6.1.12.

3.197 Concrete Curing Compound: A coating labeled and formulated for application to freshly poured concrete to retard the evaporation of water, or harden or dustproof the surface of freshly poured concrete.

3.208 Concrete/Masonry Sealer: A clear or opaque coating that is labeled and formulated primarily for application to concrete and masonry surfaces to prevent penetration of water, provide resistance against abrasion, alkalis, acids, mildew, staining, or ultraviolet light, or harden or dustproof the surface of aged or cured concrete.

3.219 Driveway Sealer: A coating labeled and formulated for application to worn asphalt driveway surfaces to fill cracks, seal the surface to provide protection, or to restore or preserve the appearance.

3.22 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.

3.23 EPA: United States Environmental Protection Agency.

3.24 Exempt Compound: A compound identified as exempt under the definition of Volatile Organic Compound (VOC), as defined in Rule 1020 (Definitions).

3.25 Faux Finishing Coating: A coating labeled and formulated to meet one or more of the following criteria:

3.25.1 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; or
3.2523.2 A decorative coating used to create a metallic, iridescent, or pearlescent appearance and 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); or

3.2523.3 A decorative coating used to create a metallic appearance and 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 Section 6.3.89; or

3.2523.4 A decorative coating used to create a metallic appearance and 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 Section 6.3.89; or

3.2523.5 A clear topcoat to seal and protect a Faux Finishing coating that meets the requirements of Sections 3.2523.1, 3.2523.2, 3.2523.3, or 3.2523.4. These clear topcoats must be sold and used solely as part of a Faux Finishing coating system, and must be labeled in accordance with Section 6.1.4.

3.264 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 coating category includes sprayed fire resistant materials and intumescent fire resistive coatings that are used to bring structural materials into compliance with federal, state, and local building code requirements. The fire-resistant coatings shall be tested in accordance with ASTM E119-0718, incorporated by reference in Section 6.3.67. Fire Resistive coatings and testing agencies must be approved by building code officials.

3.275 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 E84-0718b incorporated by reference in Section 6.3.56. Effective January 1, 2011, the Fire-Retardant Coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table
of Standards 2, except as provided in Section 5.2. Effective January 1, 2010, 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.).

3.28 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 5 on a 60-degree meter according to ASTM D523-89 (1999)14 (2018), incorporated by reference in Section 6.3.78.

3.29 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.

3.30 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, 2011, the Flow coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.31 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.

3.32 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.

3.33 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).

3.34 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 Sections 3.34.1 through 3.34.5 and labeled as specified in Section 6.1:

3.34.1 Immersion in water, wastewater, or chemical solutions (aqueous and non-aqueous solutions), or chronic exposure of interior surfaces to moisture condensation; or
3.3431.2 Acute or chronic exposure to corrosive, caustic or acidic agents, or to chemicals, chemical fumes, or chemical mixtures or solutions; or

3.3431.3 Frequent exposure to temperatures above 121°C (250°F); or

3.3431.4 Frequent heavy abrasion, including mechanical wear and frequent scrubbing with industrial solvents, cleansers, or scouring agents; or

3.3431.5 Exterior exposure of metal structures and structural components.

3.32 Interior Stain: A stain labeled and formulated exclusively for use on interior surfaces.

3.33 Intumescent: A material that swells as a result of heat exposure, thus increasing in volume and decreasing in density.

3.34 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, 2011, the Lacquer category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.35 Low Solids Coating: A coating containing 0.12 kilogram or less of solids per liter (1 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 pursuant to VOC Actual.

3.36 Magnesite Cement Coating: A coating labeled and formulated for application to magnesite cement decking to protect the magnesite cement substrate from erosion by water.

3.37 Manufacturer’s Maximum Thinning Recommendation: The maximum recommendation for thinning that is indicated on the label or lid of the coating container.

3.38 Market: To facilitate sales through third party vendors including, but not limited to, catalog or ecommerce sales that bring together buyers and sellers. For the purposes of this rule, market does not mean to generally promote or advertise coatings.

3.39 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.
3.40 Medium Density Fiberboard: 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.

3.41 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 Section 6.3.89. The metallic Pigmented Coating category does not include coatings applied to roofs, or Zinc-Rich Primers.

3.42 Multi-Color Coating: A coating that is packaged in a single container and that is labeled and formulated to exhibits more than one color when applied in a single coat.

3.43 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 D523-89 (1999)14 (2018), incorporated by reference in Section 6.3.78.

3.44 Nonflat - High Gloss Coating: A nonflat coating that registers a gloss of 70 or greater on a 60-degree meter according to ASTM D523 89 (1999), incorporated by reference in Section 6.3.7. Nonflat – High Gloss Coatings must be labeled in accordance with Section 6.1.12.

3.45 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.

3.46 Pearlescent: Exhibiting various colors depending on the angles of illumination and viewing, as observed in mother-of-pearl.

3.47 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.

3.48 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.
3.49 Pre-Treatment Wash Primer: A primer that contains a minimum of 0.5 percent acid, by weight, when tested in accordance with ASTM D1613-06 incorporated by reference in Section 6.3.10, that is labeled and formulated for application directly to bare metal surfaces to provide corrosion resistance and to promote adhesion of subsequent topcoats.

3.50 Primer, Sealer, and Undercoater: A coating labeled and formulated to provide a firm bond between the substrate and the subsequent coatings, prevent subsequent coatings from being absorbed by the substrate, prevent harm to subsequent coatings by materials in the substrate, provide a smooth surface for the subsequent application of coatings, provide a clear finish coat to seal the substrate, or to block materials from penetrating into or leaching out of a substrate.

3.51 Quick-Dry Enamel: A nonflat coating that is labeled as specified in Section 6.1 and that is formulated to have the following characteristics:

3.51.1 Is capable of being applied directly from the container under normal conditions with ambient temperatures between 16 and 27°C (60 and 80°F);

3.51.2 Sets to touch in 2 hours or less, is tack free in 4 hours or less, and dries hard in 8 hours or less by the mechanical test method; and

3.51.3 Has a dried film gloss of 70 or above on a 60 degree meter.

3.51.4 Effective January 1, 2011, the Quick-Dry Enamel coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.52 Quick-Dry Primer, Sealer, and Undercoater: A primer, sealer, or undercoater that is dry to the touch in 30 minutes and can be recoated in 2 hours when tested in accordance with ASTM D1640-95 incorporated by reference in Section 6.3.10. Effective January 1, 2011, the Quick-Dry Primer, Sealer, and Undercoater coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.53 Reactive Penetrating Sealer: A clear or pigmented coating that is 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:

3.5350.1 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 Section 6.3.254: ASTM C67-97/C67M-18, or ASTM C97-92/97M-18, or ASTM C140-96/C140M-18a; and

3.5350.2 The Reactive Penetrating Sealer must not reduce the water vapor transmission rate by more than 2 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, provide a breathable waterproof barrier for concrete or masonry surfaces that does not prevent or substantially retard water vapor transmission. This performance must be verified on standardized test specimens, in accordance with ASTM E96/96M-16 or ASTM D6490-99 (2014), incorporated by reference in Section 6.3.262; and


3.5350.4 Reactive Penetrating Sealers must be labeled in accordance with Section 6.1.408.

3.5451 Recycled Coating: An architectural coating formulated such that it contains a minimum of 50 percent by volume post-consumer coating, with a maximum of 50 percent by volume secondary industrial materials or virgin materials.

3.5552 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.

3.5653 Roof Coating: A non-bituminous coating labeled and formulated for application to roofs for the primary purpose of preventing water penetration, reflecting ultraviolet light, or reflecting solar radiation.

3.5754 Rust Preventative Coating: A coating formulated to prevent the corrosion of metal surfaces for direct-to-metal coating or a coating intended for application over rusty, previously coated surfaces. The Rust Preventative category does not include coatings that are required to be applied as a topcoat over a primer; or
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 Section 6.1.76.

3.5855 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, 2011, the Sanding Sealer coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.5956 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.

3.6057 Semitransparent 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.

3.6158 Shellac: A clear or opaque coating formulated solely with the resinous secretions of the lac beetle (Laciffer lacca) and formulated to dry by evaporation without a chemical reaction.

3.6259 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).

3.6360 Solicit: To require for use or to specify, by written or oral contract.

3.6461 Specialty Primer, Sealer, and Undercoater:

3.64.1 Effective through December 31, 2011: A coating labeled as specified in Section 6.1 and that is formulated for application to a substrate to seal fire, smoke or water damage; to condition excessively chalky surfaces, or to block stains. An excessively chalky surface is one that is defined as having a chalk rating of four or less as determined by ASTM D4214-98, incorporated by reference in Section 6.3.11. Specialty Primers, Sealers, and Undercoaters must be labeled in accordance with Section 6.1.8.

3.6461.21 Effective on and after January 1, 2012: A coating that is formulated for application to a substrate to block water-soluble stains
resulting from: fire damage, smoke damage, or water damage. Specialty Primers, Sealers, and Undercoaters must be labeled in accordance with Section 6.1.87.

3.6562 Stain: A semitransparent or opaque coating labeled and formulated to change the color of a surface but not conceal the grain pattern or texture.

3.6663 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 (2008), incorporated by reference in Section 6.3.287. Stone Consolidants are for professional use only and must be labeled as such, in accordance with the labeling requirements in Section 6.1.449.

3.6764 Swimming Pool Coating: A coating labeled and formulated to coat the interior of swimming pools and to resist swimming pool chemicals. Swimming pool coatings include coatings used for swimming pool repair and maintenance.

3.68—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, 2011, the Swimming Pool Repair and Maintenance coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.69—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°C (400°F). Effective January 1, 2011, the Temperature-Indicator Safety coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.65 Tile and Stone Sealers: A clear or pigmented sealer that is used for sealing tile, stone or grout to provide resistance against water, alkalis, acids, ultraviolet light or straining and which meets one of the following subcategories:

3.65.1 Penetrating sealers are polymer solutions that cross-link in the substrate and must meet the following criteria:
3.65.1.1 Qualify as a fine particle structure to penetrate dense tile such as porcelain with absorption as low as 0.10 percent per ASTM C373-18, ASTM C97/97M-18, or ASTM C642-13, incorporated by reference in subsection 6.3.31;

3.65.1.2 Retain or increase static coefficient of friction per ANSI A137.1 (2012), incorporated by reference in subsection 6.3.32;

3.65.1.3 Not create a topical surface film on the tile or stone; and

3.65.1.4 Allow vapor transmission per ASTM E96/96M-16, incorporated by subsection 6.3.33.

3.65.2 Film forming sealers which leave a protective film on the surface.

3.7066 Tint Base: An architectural coating to which colorant is added after packaging in sale units to produce a desired color.

3.7167 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. This coating category also includes Methacrylate Multicomponent Coatings used as traffic marking coatings. The VOC content of Methacrylate Multicomponent Coatings used as traffic marking coatings shall be analyzed by the procedures in 40 CFR Part 59, Subpart D, Appendix A, incorporated by reference in subsection 6.3.16.

3.7268 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:

3.7268.1 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 (2011)e2, incorporated by reference in Section 6.3.2019; and

3.7268.2 The coating must have a weight loss of 20 milligrams or less after 1,000 cycles. This must be determined with CS-17 wheels on bonderite 1000, in accordance with ASTM D4060-0714, incorporated by reference in Section 6.3.240; and

3.7268.3 The coating must withstand 1,000 hours or more of exposure with few or no #8 blisters. This must be determined on unscribed bonderite, in
ac accordance with ASTM D4585-99/D4585M-18, and ASTM D714-02e1 (2017), incorporated by reference in Section 6.3.221; and

3.7268.4 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/D4585M-18 and ASTM D3359-0217, incorporated by reference in Section 6.3.198.

3.73 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, 2011, the Varnish coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.7469 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.

3.7570 Virgin Materials: Materials that contain no post-consumer coatings or secondary industrial materials.

3.7671 Volatile Organic Compound (VOC): as defined in Rule 1020 (Definitions).

3.7772 VOC Actual: The weight of VOC per volume of coating. VOC Actual applies to coatings or colorants in the Low Solids Coatings category and it is calculated with the following equation:

\[\text{VOC Actual} = \frac{(W_s - W_w - W_{ec})}{V_m}\]

Where:
- VOC Actual = the grams of VOC per liter of coating (also known as “Material VOC”)
- \(W_s\) = 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 or colorant, in liters

3.7873 VOC Content: The weight of VOC per volume of coating or colorant. VOC Content is VOC Regulatory, as defined in Section 3.794, for all coatings or colorants except those in the Low Solids category. For coatings or colorants in the Low Solids category, the VOC Content is VOC Actual, as defined in Section 3.7772. If the coating is a multi-component product, the VOC content is VOC
Regulatory 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.

3.7974 VOC Regulatory: VOC Regulatory is the weight of VOC per volume of coating or colorant, less the volume of water and exempt compounds. It is calculated with 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 or colorant, less water and exempt compounds (also known as “Coating VOC”)

\[
\begin{align*}
W_s & = \text{weight of volatiles, in grams} \\
W_w & = \text{weight of water, in grams} \\
W_{ec} & = \text{weight of exempt compounds, in grams} \\
V_m & = \text{volume of coating or colorant, in liters} \\
V_w & = \text{volume of water, in liters} \\
V_{ec} & = \text{volume of exempt compounds, in liters}
\end{align*}
\]

3.80 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, 2011, the Waterproofing Concrete/Masonry Sealer category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.8175 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. 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.). Waterproofing Membranes must meet the following criteria:

3.8175.1 Coating must be applied in a single coat of at least 25 mils (at least 0.025 inch) dry film thickness; and
3.8175.2 Coatings must meet or exceed the requirements contained in ASTM C836-06/C836M-18, incorporated by reference in Section 6.3.232.

3.82 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, 2011, the Waterproofing Sealer coating category is eliminated and coatings meeting this definition will be subject to the VOC limit for the applicable category in the Table of Standards 2, except as provided in Section 5.2.

3.8376 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 undercoaters. The Wood Coatings category does not include 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 Section 6.1.130.

3.8477 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.

3.8578 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.

3.8679 Zinc-Rich Primer: A coating that contains at least 65 percent metallic zinc powder or zinc dust by weight of total solids, and is formulated for application to metal substrates to provide a firm bond between the substrate and subsequent applications of coatings. Zinc-Rich Primers are intended for professional use only and are labeled as such, in accordance with the labeling requirements in Section 6.1.11.
4.0 Exemptions

4.1 The provisions of this rule shall not apply to:

4.1.1 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.

4.1.2 Any aerosol coating product.

4.2 With the exception of Section 6.2 and Section 4.3, the provisions of this rule shall not apply to any architectural coating that is sold in a container with a volume of one liter (1.057 quarts) or less, provided the following requirements are met:

4.2.1 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 quart), excluding containers packed together for shipping to a retail outlet, and

4.2.2 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 quart).

4.3 On and after sixty days following the effective date of EPA final rulemaking that the conditions described in Clean Air Act Sections 172(c)(9) and 182(c)(9) have occurred in the San Joaquin Valley regarding the 2008 8-hour Ozone National Ambient Air Quality Standard, the categories of coatings listed below shall no longer be exempt from the provisions of Table 1 of this rule when sold in containers having capacities of one liter (1.057 quarts) or less:

4.3.1 Bituminous Roof Coatings;
4.3.2 Flat Coatings that are sold in containers having capacities greater than eight fluid ounces;
4.3.3 Magnesite Cement Coatings;
4.3.4 Multi-Color Coatings;
4.3.5 Nonflat Coatings that are sold in containers having capacities greater than eight fluid ounces;
4.3.6 Pre-Treatment Wash Primers;
4.3.7 Reactive Penetrating Sealers;
4.3.8 Shellacs (Clear and Opaque);
4.3.9 Stone Consolidants;
4.3.10 Swimming Pool Coatings;
4.3.11 Tub and Tile Refinishing Coatings;
4.3.12 Wood Coatings, including Lacquers, Varnishes, and Sanding Sealers; and
4.3.13 Wood Preservatives.

4.4 Colorant added at the factory or at the worksite is not subject to the VOC limits in Table 2. In addition, containers of colorant sold at the point of sale for use in the field or on a job site are also not subject to the VOC limit in Table 2.

5.0 Requirements

5.1 VOC Content Limits: Except as provided in Sections 5.2 and 5.3, no person shall: manufacture, blend, or repackage for use within the District; or supply, sell, market or offer for sale within the District; or solicit for application or apply within the District any architectural coating or colorant with a VOC content in excess of the corresponding limit specified in Table of Standards 1 or the Table of Standards 2, after the specified effective date in the Table of Standards 1 or the Table of Standards 2. Limits are expressed as VOC Regulatory, thinned to the manufacturer’s maximum thinning recommendation, excluding any colorant added to tint bases.

5.2 Most Restrictive VOC Limit: If a coating meets the definition in Section 3.0 for one or more specialty coating categories listed in the Table of Standards 1 or the Table of Standards 2, then that coating is not required to meet the VOC limits for Flat, or Nonflat, or Nonflat High Gloss coatings, but is required to meet the VOC limit for the applicable specialty coating listed in the Table of Standards 1 or the Table of Standards 2. With the exception of the specialty coating categories specified in Sections 5.2.1 through 5.2.12, if a coating is recommended for use in more than one of the specialty coating categories listed in Table 1 the Table of Standards, then the most restrictive (or lowest) VOC content limit shall apply. This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.

5.2.1 Metallic pigmented coatings;
5.2.2 Shellacs;
5.2.3 Pretreatment wash primers;
5.2.4 Industrial maintenance coatings;
5.2.5 Low-solids coatings;
5.2.6 Wood preservatives;
5.2.7 High temperature coatings;
5.2.8 Bituminous roof primers;
5.2.9 Specialty primers, sealers and undercoaters;
5.2.10 Aluminum roof coatings;
5.2.11 Zinc-rich primers; and
5.2.12 Wood Coatings.
5.2.1 Effective until December 31, 2010, with the exception of the specialty coating categories specified in Section 5.2.3.1 through 5.2.3.15, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 1, the most restrictive (or lowest) VOC content limit shall apply.

5.2.2 Effective on and after January 1, 2011, with the exception of the specialty coating categories specified in Sections 5.2.3.2, 5.2.3.3, 5.2.3.5 through 5.2.3.9, and 5.2.3.14 through 5.2.3.18, if a coating is recommended for use in more than one of the specialty coating categories listed in the Table of Standards 2, the most restrictive (or lowest) VOC content limit shall apply.

5.2.3 This requirement applies to: usage recommendations that appear anywhere on the coating container, anywhere on any label or sticker affixed to the container, or in any sales, advertising, or technical literature supplied by a manufacturer or anyone acting on their behalf.

5.2.3.1 Lacquer coatings (including lacquer sanding sealers)
5.2.3.2 Metallic pigmented coatings
5.2.3.3 Shells
5.2.3.4 Fire retardant coatings
5.2.3.5 Pretreatment wash primers
5.2.3.6 Industrial maintenance coatings
5.2.3.7 Low-solids coatings
5.2.3.8 Wood preservatives
5.2.3.9 High temperature coatings
5.2.3.10 Temperature-indicator safety coatings
5.2.3.11 Antenna coatings
5.2.3.12 Antifouling coatings
5.2.3.13 Flow coatings
5.2.3.14 Bituminous roof primers
5.2.3.15 Specialty primers, sealers and undercoaters
5.2.3.16 Aluminum roof coatings
5.2.3.17 Zinc-rich primers
5.2.3.18 Wood Coatings

5.3 Sell-Through of Coatings:

A coating manufactured prior to the effective date specified for that coating in the Table of Standards 1 or the Table of Standards 2, and 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 the Table of Standards 1 or the Table of Standards 2 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 Section 5.3 does not apply to any coating that does not display the date or date code required by Section 6.1.1.

5.3.1 A coating manufactured prior to January 1, 2022 may be sold, supplied, or offered for sale for up to three years after January 1, 2022. In addition, a coating manufactured before January 1, 2022 may be applied at any time, both before and after January 1, 2022, so long as the coating complied with the standards in effect at the time the coating was manufactured. This subsection 5.3.1 does not apply to any coating that does not display the date or date-code required by subsection 6.1.1.

5.3.2 A colorant manufactured prior to January 1, 2022 may be sold, supplied, or offered for sale for up to three years after January 1, 2022. In addition, a colorant manufactured before January 1, 2022 may be applied at any time, both before and after January 1, 2022, so long as the colorant complied with the standards in effect at the time the colorant was manufactured. This subsection 5.3.2 does not apply to any colorant that does not display the date or date-code required by subsection 6.1.1.

5.4 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.

5.5 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 the Table of Standards 1 or the Table of Standards 2.

5.6 Rust Preventative Coatings: Effective through December 31, 2010, no person shall apply or solicit the application of any rust preventative coating for industrial use, unless such a rust preventative coating complies with the industrial maintenance coating VOC limit specified in the Table of Standards 1.

5.7 Coatings Not Listed in the Table of Standards 1 or the Table of Standards 2: For any coating that does not meet any of the definitions for the specialty coatings categories listed in the Table of Standards 1 or the Table of Standards 2, the VOC content limit shall be determined by classifying the coating as a Flat, or Nonflat, or Nonflat – High Gloss coating, based on its gloss, and the corresponding Flat,
Colorants: No person within the District shall, at the point of sale of any architectural coating subject to subsection 5.1, add to such coating any colorant that contains VOCs in excess of the corresponding applicable VOC limit specified in Table 2. The point of sale includes retail outlets that add colorant to a coating container to obtain a specific color.

Prior to January 1, 2011, any coating that meets a definition in Section 3.0 for a coating category listed in the Table of Standards 2 and complies with the applicable VOC limit in the Table of Standards 2 and with Sections 5.2 and 6.1 (including those provision of Section 6.1 otherwise effective on January 1, 2011) shall be considered in compliance with this rule.
**PROPOSED**

*April 16, 2020*

**TABLE OF STANDARDS 1 (Effective through 12/31/10)**

Limits are expressed in grams of VOC per liter of coating thinned to the manufacturer’s maximum recommendation, excluding the volume of any water, exempt compounds, or colorant added to tint bases. Manufacturer’s maximum recommendation means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

<table>
<thead>
<tr>
<th>COATING CATEGORY</th>
<th>Effective Date: 1/1/2003</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Flat Coatings</strong></td>
<td>100</td>
</tr>
<tr>
<td><strong>Nonflat Coatings</strong></td>
<td>150</td>
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<tr>
<td><strong>Nonflat-High-Gloss Coatings</strong></td>
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<tr>
<td><strong>Specialty Coatings</strong></td>
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</tr>
<tr>
<td>Antenna Coatings</td>
<td>530</td>
</tr>
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<td>Antifouling Coatings</td>
<td>400</td>
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<tr>
<td>Bituminous Roof Coatings</td>
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<tr>
<td>Bituminous Roof Primers</td>
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</tr>
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<td>Bond Breakers</td>
<td>350</td>
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<tr>
<td>Clear Wood Coatings:</td>
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<td>Clear Brushing Lacquers</td>
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</tr>
<tr>
<td>Lacquers (including lacquer sanding sealers)</td>
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</tr>
<tr>
<td>Sanding Sealers (other than lacquer sanding sealers)</td>
<td>350</td>
</tr>
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<td>Varnishes</td>
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<tr>
<td>Concrete Curing Compounds</td>
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<td>Dry Fog Coatings</td>
<td>400</td>
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<tr>
<td>Faux Finishing Coatings</td>
<td>350</td>
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<tr>
<td>Fire Resistant Coatings</td>
<td>350</td>
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<td>Fire Retardant Coatings:</td>
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</tr>
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<td>-- Clear</td>
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</tr>
<tr>
<td>-- Opaque</td>
<td>350</td>
</tr>
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<td>Floor Coatings</td>
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<tr>
<td>Flow Coatings</td>
<td>420</td>
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<tr>
<td>Form-Release Compounds</td>
<td>250</td>
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<tr>
<td>Graphic Arts Coatings (Sign Paints)</td>
<td>500</td>
</tr>
<tr>
<td>High Temperature Coatings</td>
<td>420</td>
</tr>
<tr>
<td>Industrial Maintenance Coatings</td>
<td>250</td>
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<tr>
<td>Low Solids Coatings</td>
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<td>300</td>
</tr>
<tr>
<td>Metallic Pigmented Coatings</td>
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<tr>
<td>Multi-Color Coatings</td>
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<td>COATING CATEGORY</td>
<td>Effective Date:</td>
</tr>
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<td>------------------------------------------------------</td>
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<tr>
<td>Pre-Treatment Wash Primers</td>
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<tr>
<td>Primers, Sealers, and Undercoaters</td>
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</tr>
<tr>
<td>Quick-Dry Enamels</td>
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<tr>
<td>Quick-Dry Primers, Sealers and Undercoaters</td>
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</tr>
<tr>
<td>Recycled Coatings</td>
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<tr>
<td>Roof Coatings</td>
<td>250</td>
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<tr>
<td>Rust Preventative Coatings</td>
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</tr>
<tr>
<td>Shellacs:</td>
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<td>— Clear</td>
<td>730</td>
</tr>
<tr>
<td>— Opaque</td>
<td>550</td>
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<td>Specialty Primers, Sealers, and Undercoaters</td>
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</tr>
<tr>
<td>Stains</td>
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</tr>
<tr>
<td>Swimming Pool Coatings</td>
<td>340</td>
</tr>
<tr>
<td>Swimming Pool Repair and Maintenance Coatings</td>
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</tr>
<tr>
<td>Temperature Indicator Safety Coatings</td>
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<td>Traffic Marking Coatings</td>
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<td>Waterproofing Sealers</td>
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<td>Waterproofing Concrete/Masonry Sealers</td>
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<tr>
<td>Wood Preservatives</td>
<td>350</td>
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</tbody>
</table>

a Conversion factor: one pound VOC per gallon (U.S.) = 119.95 grams VOC per liter.
b Units are grams of VOC per liter of coating, including water and exempt compounds in accordance with Section 3.77.
Table 1  VOC Content Limits for Coatings

<table>
<thead>
<tr>
<th>COATING CATEGORY</th>
<th>VOC Limit (g/l) Effective 1/1/2011 through 12/31/2011</th>
<th>Current VOC Limit (g/l) Effective on and after 1/1/2012</th>
<th>VOC Limit (g/l) Effective on and after 1/1/2022</th>
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</thead>
<tbody>
<tr>
<td>Flat Coatings</td>
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<tr>
<td>Nonflat Coatings</td>
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<td>Nonflat—High-Gloss Coatings</td>
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<td>150</td>
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<td>Specialty Coatings</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>Aluminum Roof Coatings</td>
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<td>Basement Specialty Coatings</td>
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<td>Bituminous Roof Coatings</td>
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<td>Bituminous Roof Primers</td>
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<tr>
<td>Bond Breakers</td>
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<td>Building Envelope Coatings</td>
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<td>Graphic Arts Coatings (Sign Paints)</td>
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<td>Pre-Treatment Wash Primers</td>
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<td>Primers, Sealers, and Undercoaters</td>
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Table 1  VOC Content Limits for Coatings (continued)\(^1\)

TABLE OF STANDARDS 2 (continued) (Effective on and after 1/1/11)

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

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<thead>
<tr>
<th>COATING CATEGORY</th>
<th>VOC Limit (g/l)</th>
<th>Current VOC Limit (g/l)</th>
<th>VOC Limit (g/l)</th>
</tr>
</thead>
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<tr>
<td></td>
<td>Effective 1/1/2011 through 12/31/2011(^2)</td>
<td>Effective on and after 1/1/2012(^2)</td>
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<tr>
<td>Roof Coatings</td>
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<tr>
<td>Specialty Primers, Sealers, and Undercoaters</td>
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<td>Interior Stains</td>
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<td>Stone Consolidants</td>
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<td>Swimming Pool Coatings</td>
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<tr>
<td>Tile and Stone Sealers</td>
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<td>Tub and Tile Refinish Coatings</td>
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<td>Waterproofing Membranes</td>
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<td>Wood Preservatives</td>
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<td>Zinc-Rich Primers</td>
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</tbody>
</table>

\(^1\) Limits are expressed as VOC Regulatory (except where noted otherwise), thinned to the manufacturer’s maximum thinning recommendation, excluding any colorant added to tint bases.

\(^2\) Units are grams of VOC per liter of coating, including water and exempt compounds, in accordance with Section 3.7772.

\(2\) The dates listed do not preclude voluntary compliance with the applicable limit prior to those dates.

Table 2  VOC Content Limits for Colorants\(^1\)

<table>
<thead>
<tr>
<th>Colorants Added To</th>
<th>VOC Limit (g/l) Effective on and after 1/1/2022</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architectural Coatings, excluding Industrial Maintenance Coatings</td>
<td>50</td>
</tr>
<tr>
<td>Solvent Based Industrial Maintenance Coatings</td>
<td>600</td>
</tr>
<tr>
<td>Waterborne Industrial Maintenance Coatings</td>
<td>50</td>
</tr>
<tr>
<td>Wood Coatings</td>
<td>600</td>
</tr>
</tbody>
</table>

\(^1\) Limits are expressed as VOC Regulatory.
6.0 Administrative Requirements

6.1 Labeling Requirements: Each manufacturer of any architectural coating subject to this rule shall display the information listed in Sections 6.1.1 through 6.1.142 on the coating container (or label) in which the coating is sold or distributed.

6.1.1 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 ARB.

6.1.2 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.

6.1.3 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:

6.1.3.1 Maximum VOC Content, as determined from all potential product formulations; or

6.1.3.2 VOC Content, as determined from actual formulation data; or

6.1.3.3 VOC Content, as determined using the test methods in Section 6.3.2.

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 subsections 3.72, 3.73, and 3.74.

6.1.4 Faux Finishing Coatings: Effective January 1, 2011, 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”.

6.1.5 Industrial Maintenance Coatings: Each manufacturer of any industrial maintenance coating subject to this rule shall display on the label or lid of the container in which the coating is sold or distributed one or more of the following descriptions listed in Section 6.1.5.1 through 6.1.5.3.

6.1.5.1 “For industrial use only”
6.1.5.2 “For professional use only”
6.1.5.3 “Not for residential use” or “Not intended for residential use”

6.1.6 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.” (Category deleted effective January 1, 2011.)

6.1.7 Rust Preventative Coatings: The labels of all rust preventative coatings shall prominently display the statement “For Metal Substrates Only”.

6.1.8 Specialty Primers, Sealers and Undercoaters: Effective until December 31, 2010, the labels of all specialty primers, sealers and undercoaters shall prominently display one or more of the descriptions listed in Section 6.1.8.1 through 6.1.8.5. Effective on and after January 1, 2011, the labels of all specialty primers, sealers, and undercoaters shall prominently display the statement “Specialty Primer, Sealer, Undercoater”, one or more of the descriptions listed in Sections 6.1.8.1 through 6.1.8.3. On and after January 1, 2011, Sections 6.1.8.4 and 6.1.8.5 will be no longer effective.

6.1.8.1 For fire-damaged substrates.
6.1.8.2 For smoke-damaged substrates.
6.1.8.3 For water damaged substrates.
6.1.8.4 For excessively chalky substrates.
6.1.8.5 For blocking stains.

6.1.9 Quick Dry Enamels: The labels of all quick dry enamels shall prominently display the words “Quick Dry” and the dry hard time. (Category deleted effective January 1, 2011.)

6.1.10 Reactive Penetrating Sealers: Effective January 1, 2011, the labels of all Reactive Penetrating Sealers shall prominently display the statement “Reactive Penetrating Sealer.”
6.1.11 Stone Consolidants: Effective January 1, 2011. The labels of all Stone Consolidants shall prominently display the statement “Stone Consolidant - For Professional Use Only.”

6.1.12 Nonflat High Gloss Coatings: The labels of all Nonflat high gloss coatings shall prominently display the words “High Gloss.”

6.1.13 Wood Coatings: Effective January 1, 2011. The labels of all Wood Coatings shall prominently display the statement “For Wood Substrates Only.”

6.1.14 Zinc Rich Primers: Effective January 1, 2011. The labels of all Zinc Rich Primers shall prominently display one or more of the following descriptions listed in Section 6.1.14.1.

- 6.1.14.1.1 “For industrial use only”
- 6.1.14.1.2 “For professional use only”
- 6.1.14.1.3 “Not for residential use” or “Not intended for residential use”

6.1.12 Colorants: Effective January 1, 2022, each manufacturer of any colorant subject to this rule shall display the information listed in subsections 6.1.13.1 and 6.1.13.2 on the container (or label) in which the colorant is sold or distributed.

6.1.12.1 Date Code: The date the colorant 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 colorant, the manufacturer shall file an explanation of each code with the APCO.

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

- 6.1.12.2.1 Maximum VOC Content as determined from all potential product formulations; or
- 6.1.12.2.2 VOC Content as determined from actual formulation data; or
- 6.1.12.2.3 VOC Content as determined using the test methods in subsection 6.3.2.
If the colorant 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 subsections 3.72, 3.73, and 3.74.

6.2 Reporting Requirements

The reporting requirements specified in Sections 6.2.1 through 6.2.6 shall apply until December 31, 2010.

6.2.1 Clear Brushing Lacquers: Each manufacturer of clear brushing lacquers shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of clear brushing lacquers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.

6.2.2 Rust Preventative Coatings: Each manufacturer of rust preventative coatings shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of rust preventative coatings sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.

6.2.3 Specialty Primers, Sealers and Undercoaters: Each manufacturer of specialty primers, sealers and undercoaters shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall specify the number of gallons of specialty primers, sealers and undercoaters sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate State sales.

6.2.4 Toxic Exempt Compounds: For each architectural coating that contains perchloroethylene or methylene chloride, the manufacturer shall, on or before April 1 of each calendar year beginning in the year 2004, submit an annual report to the Executive Officer of the ARB the following information for products sold in the State during the preceding year:

6.2.4.1 the product brand name and a copy of the product label with legible usage instructions;

6.2.4.2 the product category listed in the Table of Standards 1 or the Table of Standards 2 to which the coating belongs;
6.2.4.3 the total sales in California during the calendar year to the nearest-gallon;

6.2.4.4 the volume percent, to the nearest 0.10 percent, of perchloroethylene and methylene chloride in the coating.

6.2.5 Recycled Coatings: Manufacturers of recycled coatings must submit a letter to the Executive Officer of the ARB certifying their status as a Recycled Paint Manufacturer. The manufacturer shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of the ARB. The report shall include, for all recycled coatings, the total number of gallons distributed in the State during the preceding year, and shall describe the method used by the manufacturer to calculate State distribution.

6.2.6 Bituminous Coatings: Each manufacturer of bituminous roof coatings or bituminous roof primers shall, on or before April 1 of each calendar year beginning with the year 2004, submit an annual report to the Executive Officer of ARB. The report shall specify the number of gallons of bituminous roof coatings or bituminous roof primers sold in the State during the preceding calendar year, and shall describe the method used by the manufacturer to calculate state sales.

6.2.7 Effective on and after January 1, 2011, Sales Data: All sales data listed in Sections 6.2.7.1 through 6.2.7.14 shall be maintained on-site by the responsible official for a minimum of three years. 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. Sales data submitted by the responsible official to the Executive Officer of the CARB 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. The responsible official shall within 180 days provide information, including, but not limited to the data listed in Sections 6.2.7.1 through 6.2.7.14:

6.2.7.1 The name and mailing address of the manufacturer;

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

6.2.7.3 The name of the coating product as it appears on the label and the applicable coating category;
6.2.71.4 Whether the product is marketed for interior or exterior use or both;

6.2.71.5 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);

6.2.71.6 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;

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

6.2.71.8 The names and CAS numbers of any compounds in the product specifically exempted from the VOC definition;

6.2.71.9 Whether the product is marketed as solvent-borne, waterborne, or 100% solids;

6.2.71.10 Description of resin or binder in the product;

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

6.2.71.12 The density of the product in pounds per gallon;

6.2.71.13 The percent by weight of: solids, all volatile materials, water, and any compounds in the product specifically exempted from the VOC definition; and

6.2.71.14 The percent by volume of: solids, water, and any compounds in the product specifically exempted from the VOC definition.

6.3 Test Methods

The test methods listed below shall be used to demonstrate compliance with this rule. Alternate equivalent test methods may be used provided the test methods have been approved by the APCO and EPA.
6.3.1 Calculation of VOC Content: For the purpose of determining compliance with the VOC content limits in the Table of Standards 1 or the Table of Standards 2, the VOC content of a coating or colorant shall be determined as defined in Section 3.771, 3.7872, or 3.7973 as appropriate. The VOC content of a tint base shall be determined without colorant that is added after the tint base is manufactured. If the manufacturer does not recommend thinning, the VOC Content must be calculated for the product as supplied. If the manufacturer recommends thinning, the VOC Content must be calculated including the maximum amount of thinning solvent recommended by the manufacturer. If the coating is a multi-component product, the VOC content must be calculated as mixed or catalyzed. If the coating contains silanes, siloxanes, or other ingredients that generate ethanol or other VOC during the curing process, the VOC content must include the VOCs emitted during curing.

6.3.2 VOC Content of Coatings or Colorants: To determine the physical properties of a coating or colorant in order to perform the calculations in Section 3.771 and 3.793, the reference method for VOC content is EPA Method 24, except as provided in Sections 6.3.3 and 6.3.165. An alternative method to determine the VOC content of coatings or colorants is SCAQMD Method 304-91 (Revised February 1996). The exempt compounds content shall be determined by SCAQMD Method 303-91 (Revised 19936), BAAQMD Method 43 (Revised 1996), or BAAQMD Method 41 (Revised 1995), as applicable. To determine the VOC content of a coating or colorant, the manufacturer may use EPA Method 24, or an alternative method as provided in Section 6.3.4, formulation data, or any other reasonable means for predicting that the coating or colorant has been formulated as intended (e.g., quality assurance checks, recordkeeping). However, if there are any inconsistencies between the results of EPA Method 24 test and any other means for determining VOC content, the EPA Method 24 test results will govern, except when an alternative method is approved as specified in Section 6.3.34. The District Air Pollution Control Officer (APCO) may require the manufacturer to conduct an EPA Method 24 analysis.

6.3.3 To determine the VOC content of a coating or colorant with a VOC content of 150 g/l or less, the manufacturer may use SCAQMD Method 313, incorporated by reference in subsection 6.3.34, ASTM D6886-18, incorporated by reference in subsection 6.3.35, or any other reasonable means for predicting that the coating or colorant has been formulated as intended (e.g., quality assurance checks, record keeping).

6.3.4 Alternative Test Methods: Other test methods demonstrated to provide results that are acceptable for purposes of determining compliance with
Section 6.3.2, after review and approved in writing by the staffs of the District, CARB and EPA, may also be used.

6.3.45 Methacrylate Traffic Marking Coatings: Analysis of methacrylate multicomponent coatings used as traffic marking coatings shall be conducted according to a modification of EPA Method 24 (40 CFR 59, subpart D, Appendix A). 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.


6.3.79 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, SCAQMD Laboratory Methods of Analysis for Enforcement Samples (see Section 3.0, Metallic Pigmented Coating, Aluminum Roof Coating and Faux Finish).

6.3.89 Acid Content of Coatings: The acid content of a coating shall be determined by ASTM D1613-06t, “Standard Test Method for Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer and related products” (see Section 3.0, Pre-Treatment Wash Primer).

6.3.91 Drying Times: The set-to-touch, dry-hard, dry-to-touch and dry-to-recoat times of a coating shall be determined by ASTM-D1640-95, “Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature” (see Section 3.0, Quick-Dry Enamel and Quick-Dry Primer, Sealer and Undercoater). The tack-free time of a quick dry
enamel coating shall be determined by the Mechanical Test Method of ASTM D1640-95. (Category deleted effective January 1, 2011.)


6.3.12 Exempt Compounds—Siloxanes: Exempt compounds that are cyclic, branched, or linear completely methylated siloxanes, shall be analyzed as exempt compounds for compliance with Section 6 by BAAQMD Method 43, “Determination of Volatile Methylsiloxanes in Solvent-Based Coatings, Inks, and Related Materials,” BAAQMD Manual of Procedures, Volume III, adopted 11/6/96 revised 2005. (see Section 3.0, Volatile Organic Compound, and Section 6.3.2).


6.3.14 Exempt Compounds: The content of compounds exempted 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 3.0, Volatile Organic Compound, and Section 6.3.2).

6.3.15 VOC Content of Coatings: The VOC content of a coating shall be determined by EPA Method 24 as it exists in appendix A of 40 Code of Federal Regulations (CFR) part 60, “Determination of Volatile Matter Content, Water Content, Density, Volume Solids and Weight Solids of Surface Coatings” (see Section 6.3.2).


6.3.17 Methacrylate Traffic Marking Coatings: The VOC content of methacrylate multicomponent coatings used as traffic marking coatings
shall be analyzed by the procedures in 40 CFR part 59, subpart D, appendix A, “Determination of Volatile Matter Content of Methacrylate Multicomponent Coatings Used as Traffic Marking Coatings” (September 11, 1998).

6.3.18 Hydrostatic Pressure for Basement Specialty Coatings: The hydrostatic pressure resistance for basement specialty coatings shall be analyzed using ASTM D7088-0417, “Standard Practice for Resistance to Hydrostatic Pressure for Coatings Used in Below Grade Applications Applied to Masonry”.


6.3.20 Tub and Tile Refinish Coating Hardness: The hardness of tub and tile refinish coating shall be determined by ASTM D3363-05 (2011)e2, “Standard Test Method for Film Hardness by Pencil Test”.


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6.3.34 VOC Content of Coatings: South Coast AQMD Method 313, “Determination of Volatile Organic Compounds (VOC) by Gas Chromatography/Mass Spectrometry/Flame Ionization Detection (GS/MS/FID)”.


7.0 Compliance Schedule

Persons subject to this rule shall be in compliance with this rule by the dates specified within the rule.