PROPOSAL: Amend Rule 1113 - Architectural Coatings

SYNOPSIS: The proposed amendments to Rule 1113 - Architectural Coatings amend the definition of metallic pigmented coatings to remove reference to mica to be consistent with the federal architectural coating rule, update the test method used to determine the weight percent of elemental metal in metallic coatings to reflect current practice, and delete obsolete language.


RECOMMENDED ACTION: Adopt the attached resolution:
1. Certifying the Notice of Exemption for Proposed Amended Rule 1113 – Architectural Coatings; and

Barry R. Wallerstein, D.Env.
Executive Officer

Background
Rule 1113 – Architectural Coatings was first adopted in 1977 and has been amended numerous times. It is applicable to manufacturers, distributors, and end-users of architectural coatings. In November 1996, the Board amended Rule 1113 to include an averaging compliance provision as a flexibility option providing a more cost-effective and flexible approach for manufacturers to transition compliant product lines into the marketplace. To use the Averaging Compliance Option (ACO) successfully, a manufacturer must be able to distribute sufficient volumes of products with VOC
content below applicable limits in order to offset the excess emissions from products with VOC content above the limits. One limitation of the ACO is that a manufacturer is required to have a broad array of commercial products, with sufficient volume of sales of products that are below the applicable VOC limit.

One manufacturer, affected by the limitation of the ACO described above, recently requested that the Stationary Source Committee, a subcommittee of the Board, direct staff to prepare amendments to Rule 1113 to remove the specialty primer category from the ACO provision because they were at a competitive disadvantage. The Stationary Source Committee, as a result of these discussions, directed staff to propose an amendment to Rule 1113 – Architectural Coatings to remove specialty primers from the ACO provision. After staff commenced rule making and subsequent to the Stationary Source Committee’s direction to staff, the manufacturer withdrew its request. The Stationary Source Committee then directed staff to not include the original request as a part of the proposed amendments.

However, in unrelated matters, during implementation of recent amendments to the rule, it became apparent that by adding mica to the definition of metallic pigmented coatings it is improperly less restrictive than the federal definition and a correction to delete mica from the definition is therefore necessary. Staff also became aware that the test method in the rule used to determine the metal content of metallic pigmented coatings was outdated. In addition, during the public outreach it was pointed out that a sentence in the Appendix to the Rule is obsolete and therefore it is proposed to be deleted.

The proposed amendments do not affect air quality or emissions and have no cost impact.

Proposal
Staff is proposing the following amendments to clarify issues related to rule implementation.

- Amend the definition of metallic pigmented coatings to make it consistent with the federal Architectural and Industrial Maintenance (AIM) Coatings rule.

- Update the test method used to determine the weight percent of elemental metal in metallic coatings, to reflect current practice.

- Delete obsolete sentence from Appendix A, Section A of the rule.

Emission Inventory and Emission Reduction
There is no change in emission inventory or emission reduction associated with the proposed amendments.
Cost-Effectiveness
There will be no additional compliance cost associated with the proposed changes; therefore, a cost-effectiveness and an incremental cost-effectiveness analysis are not applicable.

CEQA
The AQMD has reviewed the proposed project pursuant to State CEQA Guidelines §15002 (k)(1). Since the proposed amendments to Rule 1113 only address clarity and enforceability and it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the project is exempt from the requirements of CEQA, pursuant to state CEQA Guidelines §15061(b)(3). A Notice of Exemption has been prepared in accordance with state CEQA Guidelines §15062 for the proposed project and will be filed with the county clerks immediately following the adoption of the proposed amendments to the rule. A copy of that notice has been included as Attachment G of this letter.

Socioeconomic Analysis
The proposed amendments do not affect air quality or emissions limitations. Therefore, a socioeconomic assessment is not necessary or required.

AQMP and Legal Mandates
The proposed amendment to the definition of metallic pigmented coatings to make it no less stringent than the federal rule for architectural and industrial maintenance coatings is necessary for Rule 1113 to be approvable by U.S. EPA for inclusion into the SIP. Moreover, California State law requires AQMD to enforce federal standards.

Implementations and Resources
Existing AQMD resources will be sufficient to implement the proposed changes to this rule with minimal impact on the budget.

Attachments
A. Summary of Proposed Amendments
B. Rule Development Process Flow Chart
C. Key Contacts
D. Resolution
E. Rule Language
F. Staff Report
G. CEQA – Notice of Exemption
ATTACHMENT A

Summary of Proposed Amendments to Rule 1113 – Architectural Coatings

Staff proposes amending Rule 1113 as follows:

- Amend the definition of metallic pigmented coatings to make it consistent with the federal AIM rule by removing the words “mica particles or any combination of metallic pigments and mica particles.”

- Update the Test Method used to determine the weight percent of elemental metal in metallic coatings, to reflect current practice.

- Delete the following obsolete sentence from Appendix A, Section A of the rule: “Manufacturers that submitted an annual exemption report in 2002 for quick-dry primers, sealers and undercoaters and included those coatings in their most recent approved ACO Program, may continue to average those coatings until July 1, 2006, so long as these coatings do not exceed 450 grams of VOC per liter of coating less water and less exempt compounds, in lieu of the otherwise applicable VOC limit of 350 grams per liter.”
ATTACHMENT B

RULE DEVELOPMENT PROCESS

PROPOSED AMENDED RULE 1113 - Architectural Coatings

February 23, 2007
Stationary Source Committee (SSC) Meeting
Staff directed to review Rule 1113 Averaging Compliance Option (ACO) provision with Zinsser to determine feasibility.

March 23, 2007
Initial rule development to remove primers from ACO to provide relief, as well as other clarifications

April 17, 2007
Zinsser withdraws request to eliminate specialty primers from averaging provision.

March 23, 2007 SSC Meeting
Staff directed to amend Rule 1113 to remove specialty primers from averaging provision.

April 19, 2007
Public Workshop:
Public Notice in Newspapers

May 25, 2007 SSC Meeting
Staff directed not to remove primers from ACO. Precede with rule clarification amendments.

June 1, 2007
Set Hearing

June 6, 2007
Public Hearing Notice Published and Mailed for Public Hearing.

July 13, 2007
Public Hearing

California Environmental Quality Act (CEQA)
Notice of Exemption Will Be Filed with the County Clerks
## ATTACHMENT C

### KEY CONTACTS

<table>
<thead>
<tr>
<th>Name</th>
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<tbody>
<tr>
<td>Mike Butler</td>
<td>Behr</td>
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<tr>
<td>Ron Widner</td>
<td>Benjamin Moore</td>
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<td>Lisa King</td>
<td>BonaKemi</td>
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<td>Robert Wendoll</td>
<td>Dunn-Edwards Paints</td>
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<td>Howard Berman</td>
<td>Dutko Worldwide</td>
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<td>Joseph Tashjian</td>
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<td>Fred Anwari</td>
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<td>Jeff Margulies</td>
<td>Fulbright &amp; Jaworski</td>
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<td>Jim Kantola</td>
<td>ICI Dulux Sinclair</td>
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<td>Dan Pourreau</td>
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<td>John Wallace</td>
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<td>Dave Darling</td>
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<td>Jim Sell</td>
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<td>Madelyn Harding</td>
<td>Sherwin-Williams Company</td>
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<td>Tony Hobbs</td>
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<td>Sona Chilingaryan</td>
<td>U.S. EPA</td>
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<td>Andy Steckel</td>
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<td>Stanley Tong</td>
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<td>John Long</td>
<td>Vista Paint Corporation</td>
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<tr>
<td>Mike Jurist</td>
<td>Zinsser</td>
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<td>Tim O’Reilly</td>
<td>Zinsser</td>
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ATTACHMENT D

RESOLUTION FOR
PROPOSED AMENDED RULE 1113 - ARCHITECTURAL COATINGS
RESOLUTION NO. 2007 - ______

A Resolution of the Governing Board of the South Coast Air Quality Management District certifying that the proposed amendments to Rule 1113 – Architectural Coatings are exempt from the requirements of the California Environmental Quality Act (CEQA).

A Resolution of the AQMD Governing Board adopting Amended Rule 1113 - Architectural Coatings.

WHEREAS, the South Coast Air Quality Management District Governing Board finds and determines that Proposed Amended Rule 1113 – Architectural Coatings, is considered a "project" pursuant to the CEQA; however, South Coast Air Quality Management District staff reviewed the proposed project and determined with certainty that the proposed amendments to Rule 1113 – Architectural Coatings are exempt from the requirements of CEQA pursuant to CEQA Guidelines §15061(b)(3); and

WHEREAS, the staff report, the CEQA Notice Of Exemption, this July 13, 2007 Board letter, and other supporting documentation was presented to the AQMD Governing Board and that the Board has reviewed and considered the entirety of this information prior to approving the project; and

WHEREAS, the AQMD Governing Board obtains its authority to adopt, amend, or repeal rules and regulations from Sections 39002, 40000, 40001, 40440, 40441, 40702, and 41508 of the California Health and Safety Code; and

WHEREAS, the AQMD Governing Board has determined that a need exists to amend Rule 1113 - Architectural Coatings to achieve United States Environmental Protection Agency approval for inclusion in the California State Implementation Plan; and

WHEREAS, the AQMD Governing Board has determined that Rule 1113 - Architectural Coatings, as proposed to be amended, is written and displayed so that its meaning can be easily understood by persons directly affected by them; and

WHEREAS, the AQMD Governing Board has determined that Rule 1113 - Architectural Coatings, as proposed to be amended, is in harmony with, and not in conflict with, or contradictory to, existing statutes, court decisions, or state or federal regulations; and

WHEREAS, the AQMD Governing Board has determined that Rule 1113 - Architectural Coatings, as proposed to be amended, does not impose the same requirements as any existing state or federal regulation, and the proposed amended rule is necessary and proper to execute the powers and duties granted to, and imposed upon, the AQMD; and
WHEREAS, the AQMD Governing Board in amending the regulation, references the following statutes which the AQMD hereby implements, interprets or makes specific: Health and Safety Code Sections 40001(a) (air quality standards and enforcement of federal standards), 40440(a) (rules to carry out plan), 40702 (adopt regulation to execute duties), and Federal Clean Air Act Sections 116 (state standards at least as stringent as federal standards) and 172 (c)(1) (RACT); and

WHEREAS, the AQMD Governing Board determines that there is a problem that Proposed Amended Rule 1113 - Architectural Coatings will alleviate, the proposed amendment will address the concerns of the United States Environmental Protection Agency for approval for inclusion in the California State Implementation Plan; and

WHEREAS, the AQMD Governing Board has determined that the Socioeconomic Impact Assessment is not necessary because this amendment has no significant impact on air quality, emissions limitations or costs to manufacturers; and

WHEREAS, a public hearing has been properly noticed in accordance with all provisions of Health and Safety Code, Section 40725; and

WHEREAS, the AQMD Governing Board has held a public hearing in accordance with all provisions of law; and

WHEREAS, the AQMD specifies the manager of Rule 1113 as the custodian of the documents or other materials which constitute the record of proceedings upon which the adoption of this proposed amendment is based, which are located at the South Coast Air Quality Management District, 21865 Copley Drive, Diamond Bar, California.

NOW, THEREFORE, BE IT RESOLVED, that the South Coast Air Quality Management District Board does hereby certify the Notice of Exemption for Rule 1113 – Architectural Coatings, as proposed to be amended, completed in compliance with CEQA Guidelines §15002(k)(1) - Three Step Process and §15061(b)(3) – Review for Exemption (General Rule Exemption). This information was presented to the Governing Board, whose members reviewed, considered, and approved the information therein prior to acting on Proposed Amended Rule 1113; and

BE IT FURTHER RESOLVED, that the AQMD Governing Board does hereby amend, pursuant to the authority granted by law, Rule 1113 - Architectural Coatings, as set forth in the attached, and incorporated herein by this reference.

Attachment

DATE:______________  __________________________

CLERK OF THE BOARD
PROPOSED AMENDED RULE 1113.  ARCHITECTURAL COATINGS

(a) Applicability
This rule is applicable to any person who supplies, sells, offers for sale, or manufactures any architectural coating for use in the District that is intended to be field applied to stationary structures or their appurtenances, and to mobile homes, pavements or curbs; as well as any person who applies or solicits the application of any architectural coating within the District. The purpose of this rule is to limit the VOC content of architectural coatings used in the District or to allow the averaging of such coatings, as specified, so their actual emissions do not exceed the allowable emissions if all the averaged coatings had complied with the specified limits.

(b) Definitions
For the purpose of this rule, the following definitions shall apply:

(1) AEROSOL COATING PRODUCT means 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 marking and traffic marking applications.

(2) ALUMINUM ROOF COATINGS are roof coatings containing at least 0.7 pounds per gallon (84 grams per liter) of coating as applied, of elemental aluminum pigment.

(3) APPURTENANCES are accessories to a stationary structure, including, but not limited to: hand railings, cabinets, bathroom and kitchen fixtures, fences, rain-gutters and down-spouts, window screens, lamp-posts, heating and air conditioning equipment, other mechanical equipment, large fixed stationary tools, signs, motion picture and television production sets, and concrete forms.

(4) ARCHITECTURAL COATINGS are any coatings applied to stationary structures and their appurtenances, to mobile homes, to pavements, or to curbs.
(5) BELOW-GROUND WOOD PRESERVATIVES are wood preservatives formulated to protect below-ground wood.

(6) BITUMINOUS COATING MATERIALS are black or brownish coating materials, soluble in carbon disulfide, consisting mainly of hydrocarbons and which are obtained from natural deposits, or as residues from the distillation of crude petroleum oils, or of low grades of coal.

(7) BITUMINOUS ROOF PRIMERS are primers formulated for or applied to roofing that incorporate bituminous coating materials.

(8) BOND BREAKERS are coatings formulated for or applied between layers of concrete to prevent the freshly poured top layer of concrete from bonding to the substrate over which it is poured.

(9) CLEAR BRUSHING LACQUERS are 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 paragraph (d)(7).

(10) CLEAR WOOD FINISHES are clear and semi-transparent coatings, including lacquers and varnishes, applied to wood substrates, including floors, decks and porches, to provide a transparent or translucent solid film.

(11) COATING is a material which is applied to a surface in order to beautify, protect, or provide a barrier to such surface.

(12) COLORANTS are solutions of dyes or suspensions of pigments.

(13) CONCRETE-CURING COMPOUNDS are coatings formulated for or applied to freshly poured concrete to retard the evaporation of water. Concrete-curing compounds manufactured and used for roadways and bridges (does not include curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas) are those concrete-curing compounds that meet ASTM Designation C309, Class B, and meet a loss of water standard of less than 0.15-kg/m² in 24 hours as determined by the California Transportation Department, California Test 534.

(14) DRY-FOG COATINGS are coatings which are formulated only for spray application so that when sprayed, overspray droplets dry before falling on floors and other surfaces.

(15) EXEMPT COMPOUNDS (See Rule 102-Definition of Terms.)

(16) FIRE-PROOFING EXTERIOR COATINGS are opaque coatings formulated to protect the structural integrity of outdoor steel and other outdoor construction
materials and listed by Underwriter's Laboratories, Inc. for the fire protection of steel.

(17) **FIRE-RETARDANT COATINGS** are coatings 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 Test Method E 84, incorporated by reference in paragraph (e)(4) or listed by Underwriter's Laboratories, Inc. as fire-retardant coatings with a flame spread index of less than 25.

(18) **FLAT COATINGS** are coatings that register a gloss of less than 15 on an 85-degree meter or less than 5 on a 60-degree meter.

(19) **FLOOR COATINGS** are opaque coatings that are formulated for or applied to flooring; including but not limited to decks and porches, and clear coatings formulated for or applied to concrete flooring, but do not include Industrial Maintenance Coatings.

(20) **FORMULATION DATA** is the actual product recipe which itemizes all the ingredients contained in a product including VOCs and the quantities thereof used by the manufacturer to create the product. Material Safety Data Sheets (MSDS) are not considered formulation data.

(21) **GRAMS OF VOC PER LITER OF COATING, LESS WATER AND LESS EXEMPT COMPOUNDS**, is the weight of VOC per combined volume of VOC and coating solids and can be calculated by the following equation:

\[
\text{Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds} = \frac{W_s - W_w - W_{es}}{V_m - V_w - V_{es}}
\]

Where:
- \(W_s\) = weight of volatile compounds in grams
- \(W_w\) = weight of water in grams
- \(W_{es}\) = weight of exempt compounds in grams
- \(V_m\) = volume of material in liters
- \(V_w\) = volume of water in liters
- \(V_{es}\) = volume of exempt compounds in liters
For coatings that contain reactive diluents, the Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds, shall be calculated by the following equation:

\[
\text{Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds} = \frac{W_s - W_w - W_{es}}{V_m - V_w - V_{es}}
\]

Where:
- \(W_s\) = weight of volatile compounds emitted during curing, in grams
- \(W_w\) = weight of water emitted during curing, in grams
- \(W_{es}\) = weight of exempt compounds emitted during curing, in grams
- \(V_m\) = volume of the material prior to reaction, in liters
- \(V_w\) = volume of water emitted during curing, in liters
- \(V_{es}\) = volume of exempt compounds emitted during curing, in liters

(22) **GRAMS OF VOC PER LITER OF MATERIAL** is the weight of VOC per volume of material and can be calculated by the following equation:

\[
\text{Grams of VOC per Liter of Material} = \frac{W_s - W_w - W_{es}}{V_m}
\]

Where:
- \(W_s\) = weight of volatile compounds in grams
- \(W_w\) = weight of water in grams
- \(W_{es}\) = weight of exempt compounds in grams
- \(V_m\) = volume of the material in liters

(23) **GRAPHIC ARTS COATINGS** (Sign Paints) are coatings formulated for hand-application by artists using brush or roller techniques to indoor and outdoor signs (excluding structural components) and murals, including lettering enamels, poster colors, copy blockers, and bulletin enamels.

(24) **HIGH-TEMPERATURE INDUSTRIAL MAINTENANCE COATINGS** are industrial maintenance coatings formulated for or applied to substrates exposed continuously or intermittently to temperatures above 400 degrees Fahrenheit.

(25) **INDUSTRIAL MAINTENANCE COATINGS** are coatings, including primers, sealers, undercoaters, intermediate coatings and topcoats, formulated for or
applied to substrates, including floors, that are exposed to one or more of the following extreme environmental conditions:
(A) immersion in water, wastewater, or chemical solutions (aqueous and non-aqueous solutions), or chronic exposure of interior surfaces to moisture condensation;
(B) acute or chronic exposure to corrosive, caustic or acidic agents, or similar chemicals, chemical fumes, chemical mixtures, or solutions;
(C) repeated exposure to temperatures in excess of 250 degrees Fahrenheit;
(D) repeated heavy abrasion, including mechanical wear and repeated scrubbing with industrial solvents, cleaners, or scouring agents; or
(E) exterior exposure of metal structures.

(26) INTERIOR STAINS are stains labeled and formulated exclusively for use on interior surfaces.

(27) JAPAN'S/FAUX FINISHING COATINGS are glazes designed for wet-in-wet techniques used as a stain or glaze to create artistic effects, including but not limited to, dirt, old age, smoke damage, and simulated marble and wood grain.

(28) LACQUERS are clear or pigmented wood finishes, including clear lacquer sanding sealers, formulated with nitrocellulose or synthetic resins to dry by evaporation without chemical reaction.

(29) LOW-SOLIDS COATINGS are coatings containing one pound or less of solids per gallon of material.

(30) MAGNESITE CEMENT COATINGS are coatings formulated for or applied to magnesite cement decking to protect the magnesite cement substrate from erosion by water.

(31) MASTIC COATINGS are coatings formulated to cover holes and minor cracks and to conceal surface irregularities, and applied in a thickness of at least 10 mils (dry, single coat).

(32) METALLIC PIGMENTED COATINGS are coatings, excluding roof coatings, containing at least 0.4 pounds per gallon (48 grams/liter) of coating, as applied, of elemental metallic pigment (excluding zinc).

(33) MULTI-COLOR COATINGS are coatings which exhibit more than one color when applied and which are packaged in a single container and applied in a single coat.

(34) NONFLAT COATINGS are coatings that are not defined under any other definition in this rule and that register a gloss of 5 or greater on a 60 degree meter
and a gloss of 15 or greater on an 85 degree meter according to ASTM Test Method D 523 as specified in paragraph (e)(6).

(35) NONFLAT HIGH GLOSS COATINGS are coatings that register a gloss of 70 or above on a 60 degree meter according to ASTM Test Method D 523 as specified in paragraph (e)(6).

(36) POST-CONSUMER COATINGS are finished coatings that would have been disposed of in a landfill, having completed their usefulness to a consumer, and does not include manufacturing wastes.

(37) PRE-TREATMENT WASH PRIMERS are coatings which contain a minimum of 1/2 percent acid, by weight, applied directly to bare metal surfaces to provide necessary surface etching.

(38) PRIMERS are coatings applied to a surface to provide a firm bond between the substrate and subsequent coats.

(39) PRODUCT LINE is a line of coatings reported under one product number and name and subject to one coating VOC limit as specified in paragraph (c)(2) Table of Standards.

(40) QUICK-DRY ENAMELS are non-flat, high gloss coatings which comply with the following:

   (A) Shall be capable of being applied directly from the container by brush or roller under normal conditions, normal conditions being ambient temperatures between 60°F and 80°F; and
   (B) When tested in accordance with ASTM D 1640 they shall: set-to-touch in two hours or less, dry-hard in eight hours or less, and be tack-free in four hours or less by the mechanical test method.

(41) QUICK-DRY PRIMERS, SEALERS, AND UNDERCOATERS are primers, sealers, and undercoaters which are intended to be applied to a surface to provide a firm bond between the substrate and subsequent coats and which are dry-to-touch in one-half hour and can be recoated in two hours (ASTM D 1640).

(42) REACTIVE DILUENT is a liquid which is a VOC during application and one in which, through chemical and/or physical reaction, such as polymerization, becomes an integral part of the coating.

(43) RECYCLED COATINGS are coatings formulated such that 50 percent or more of the total weight consists of secondary and post-consumer coatings and 10 percent or more of the total weight consists of post-consumer coatings, and manufactured by a certified recycled paint manufacturer.
(44) ROOF COATINGS are coatings formulated for application to exterior roofs for the primary purpose of preventing penetration of the substrate by water, or reflecting heat and ultraviolet radiation.

(45) RUST PREVENTATIVE COATINGS are coatings formulated for use in preventing the corrosion of metal surfaces in residential and commercial situations.

(46) SANDING SEALERS are clear wood coatings formulated for or applied to bare wood for sanding and to seal the wood for subsequent application of coatings. To be considered a sanding sealer a coating must be clearly labeled as such.

(47) SEALERS are coatings applied to either block materials from penetrating into or leaching out of a substrate, to prevent subsequent coatings from being absorbed by the substrate, or to prevent harm to subsequent coatings by materials in the substrate.

(48) SECONDARY (REWORK) COATINGS are fragments of finished coatings or finished coatings from a manufacturing process that has converted resources into a commodity of real economic value, but does not include excess virgin resources of the manufacturing process.

(49) SHELLACS are clear or pigmented coatings formulated solely with the resinous secretions of the lac insect (laccifer lacca). Shellacs are formulated to dry by evaporation without a chemical reaction providing a quick-drying, solid, protective film for priming and sealing stains and odors; and for wood finishing excluding floors effective January 1, 2007.

(50) SOLICIT is to require for use or to specify, by written or oral contract.

(51) SPECIALTY PRIMERS are coatings formulated for or applied to a substrate to seal fire, smoke or water damage; or to condition excessively chalky surfaces. An excessively chalky surface is one that is defined as having chalk rating of four or less as determined by ASTM D-4214 – Photographic Reference Standard No. 1 or the Federation of Societies for Coatings Technology “Pictorial Standards for Coatings Defects”.

(52) STAINS are opaque or semi-transparent coatings which are formulated to change the color but not conceal the grain pattern or texture.

(53) SWIMMING POOL COATINGS are coatings specifically formulated for or applied to the interior of swimming pools and to resist swimming pool chemicals.

(54) SWIMMING POOL REPAIR COATINGS are chlorinated, rubber-based coatings used for the repair and maintenance of swimming pools over existing chlorinated, rubber-based coatings.
(55) TINT BASE is an architectural coating to which colorants are added.

(56) TRAFFIC COATINGS are coatings formulated for or applied to public streets, highways, and other surfaces including, but not limited to, curbs, berms, driveways, and parking lots.

(57) UNDERCOATERS are coatings formulated for or applied to substrates to provide a smooth surface for subsequent coats.

(58) VARNISHES are clear wood finishes formulated with various resins to dry by chemical reaction.

(59) VOLATILE ORGANIC COMPOUND (VOC) is as defined in Rule 102 – Definition of Terms. For the purpose of this rule, tertiary butyl acetate (TBAc) is not a VOC when used in industrial maintenance coatings including zinc-rich industrial maintenance coatings.

(60) WATERPROOFING SEALERS are coatings which are formulated for the primary purpose of preventing penetration of porous substrates by water.

(61) WATERPROOFING CONCRETE/MASONRY SEALERS are clear or pigmented sealers that are formulated for sealing concrete and masonry to provide resistance against water, alkalis, acids, ultraviolet light, and staining.

(62) WOOD PRESERVATIVES are coatings formulated to protect wood from decay or insect attack by the addition of a wood preservative chemical registered by the California Environmental Protection Agency.

(63) ZINC-RICH INDUSTRIAL MAINTENANCE PRIMERS are primers formulated to contain a minimum of 65 percent metallic zinc powder (zinc dust) by weight of total solids for application to metal substrates.

(c) Requirements

(1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.

(2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or
repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or 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.

**TABLE OF STANDARDS**

**VOC LIMITS**

**Grams of VOC Per Liter of Coating,**

**Less Water and Less Exempt Compounds**

<table>
<thead>
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<th>COATING CATEGORY</th>
<th>Ceiling Limit*</th>
<th>Current Limit</th>
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<td>Fire-Proofing Exterior Coatings</td>
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<td>Fire-Retardant Coatings***</td>
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<td>Multi-Color Coatings</td>
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**1113-9**
### TABLE OF STANDARDS (cont.)

#### VOC LIMITS

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<thead>
<tr>
<th>COATING CATEGORY</th>
<th>Ceiling Limit*</th>
<th>Current Limit</th>
<th>Effective Date</th>
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<td>Pigmented Lacquer</td>
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<td>Primers, Sealers, and Undercoaters</td>
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<td>Quick-Dry Enamels</td>
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<td>Quick-Dry Primers, Sealers, and Undercoaters</td>
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<td>Swimming Pool Coatings</td>
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<td>Swimming Pool Coatings, Repair</td>
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<td>Waterproofing Concrete/Masonry Sealers</td>
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<tr>
<td>Wood Preservatives, Other</td>
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<td></td>
</tr>
</tbody>
</table>

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.

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**TABLE OF STANDARDS (cont.)**

**VOC LIMITS**

**Grams of VOC Per Liter of Material**

<table>
<thead>
<tr>
<th>COATING</th>
<th>Limit</th>
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</thead>
<tbody>
<tr>
<td>Low-Solids Coating</td>
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</tbody>
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(3) Coating Categorization

(A) If anywhere on the container of any coating listed in the Table of Standards, on any sticker or label affixed thereto, or in any sales or advertising literature, any representation is made that the coating may be used as, or is suitable for use as, a coating for which a
lower VOC standard is specified in the table or in paragraph (c)(1), then the lowest VOC standard shall apply.

(B) The provisions of paragraph (c)(3)(A) shall not apply to a coating described in part as a flat, nonflat or primer-sealer-undercoater coating, or represented in part for use on flooring, provided that all of the following requirements are met:

(i) The coating meets the definition of a specific coating category for which a higher VOC standard is specified in the Table of Standards, and

(ii) The coating is labeled in a manner consistent with the definition and all the specific labeling requirements for that specific coating category, and

(iii) The coating is suitable and only recommended for the intended uses of that specific coating category.

(4) Sell-Through Provision

(A) Any coating that is manufactured prior to the effective date of the applicable limit specified in the Table of Standards, and that has a VOC content above that limit (but not above the limit in effect on the date of manufacture), may be sold, supplied, offered for sale, or applied for up to three years after the specified effective date. The manufacturer shall maintain sales and distribution records, as applicable, for any coating manufactured prior to the effective date if that coating volume is not included in an approved Averaging Compliance Option [specified in paragraph (c)(6) of this rule] Program that includes the same coating manufactured on or after the effective date. Such records shall clearly indicate the date of manufacture (or date code or batch code) and volume of coating sold or distributed to distinguish between those coatings subject to the provisions of this paragraph and those subject to the provisions of Appendix A section (K). These records shall be made available to the Executive Officer upon request and shall be maintained for a period of at least three years after the end of a compliance period of the Averaging Compliance Option Program.

(B) Any coating in containers of one quart or less that is manufactured prior to the expiration of the exemption under subparagraph (g)(1)(A) which has a VOC content above that limit specified in
the Table of Standards, or shellac manufactured prior to January 1, 2007 and represented for use on wood flooring may be sold, supplied, offered for sale, or applied for up to one year after the effective date specified in the Table of Standards or the shellac definition. A manufacturer using this small container sell-through provision shall submit an annual report to the Executive Officer within three months of the end of the appropriate sell-through period. The report shall contain information as required by the Executive Officer to monitor the use of small containers under this provision. The manufacturer shall also provide written notice of the one year sell-through expiration date to their distribution chain. These records shall be made available to the Executive Officer upon request and shall be maintained for a period of at least three years.

(5) All architectural coating containers used to apply the contents therein to a surface direct from said container by pouring, siphoning, brushing, rolling, padding, ragging or other means, shall be closed when not in use. These architectural coating containers include, but should not be limited to: drums, buckets, cans, pails, trays or other application containers.

(6) Averaging Compliance Option

In lieu of specific compliance with the applicable limits in the Table of Standards, manufacturers may average designated coatings such that their actual cumulative emissions from the averaged coatings are less than or equal to the cumulative emissions that would have been allowed under those limits over a compliance period not to exceed one year.

(A) On or after January 1, 2001, the following coatings may be averaged: floor coatings; primers, sealers, and undercoaters; quick-dry primers, sealers, and undercoaters; quick-dry enamels; rust preventative coatings; roof coatings; specialty primers; stains; waterproofing sealers; industrial maintenance coatings; as well as flats and nonflats (excluding recycled coatings).

(B) On or after July 1, 2006, the following coatings in addition to those designated in subparagraph (c)(6)(A) may be averaged: bituminous roof primers; fire-retardant coatings, high gloss nonflats, metallic pigmented coatings, zinc-rich industrial maintenance primers,
interior stains; waterproofing concrete/masonry sealers; varnishes; and sanding sealers.

(C) Manufacturers using the Averaging Compliance Option shall:

(i) Comply with the averaging provisions contained in Appendix A, as well as maintain all records for the Averaging Compliance Option (ACO) Program and make these records available to the Executive Officer upon request, for a period of at least three years after the end of the compliance period; and

(ii) Use only the sell-through provision in Appendix A for each coating included in the ACO Program in lieu of the sell-through provision of subparagraph (c)(4).

(d) Administrative Requirements

(1) Containers for all coatings subject to this rule shall display the date of manufacture of the contents or a code indicating the date of manufacture. The manufacturers of such coatings shall file with the Executive Officer of the District and the Executive Officer of the Air Resources Board an explanation of each code.

(2) Containers for all coatings subject to the requirements of this rule shall carry a statement of the manufacturer's recommendation regarding thinning of the coating. This requirement shall not apply to the thinning of architectural coatings with water. The recommendation shall specify that the coating is to be employed without thinning or diluting under normal environmental and application conditions, unless any thinning recommended on the label for normal environmental and application conditions does not cause a coating to exceed its applicable standard.

(3) Each container of any coating subject to this rule shall display the maximum VOC content of the coating, as supplied, and after any thinning as recommended by the manufacturer. The VOC content of low-solids coatings shall be displayed as grams of VOC per liter of material (excluding any colorant added to the tint bases) and the VOC content of any other coating shall be displayed as grams of VOC per liter of coating (less water and less exempt compounds, and excluding any colorant added to tint bases). VOC content displayed may be calculated using product formulation data, or may be determined using the test method in
subdivision (e). VOC content calculated from formulation data shall be adjusted by the manufacturer to account for cure volatiles (if any) and maximum VOC content within production batches.

(4) The coating container label or container for quick-dry primers, sealers, and undercoaters and quick-dry enamels shall include the words “Quick-Dry” or shall list the following:
   (A) The recoat time for quick-dry primers, sealers, and undercoaters, or
   (B) The dry-hard time for quick-dry enamels.
Containers and container labels shall not contain the words “Quick-Dry” unless the material meets the dry times specified in the respective definitions or the material complies with the respective general VOC limit for enamels or primers, sealers, and undercoaters.

(5) The labels of all rust preventative coatings shall include the statement “For Metal Substrates Only” prominently displayed, effective January 1, 2003.

(6) Effective January 1, 2003, the labels of all specialty primers shall prominently display one or more of the following descriptions:
   (A) For fire-damaged substrates.
   (B) For smoke-damaged substrates.
   (C) For water-damaged substrates.
   (D) For excessively chalky substrates.

(7) The labels of concrete-curing compounds manufactured and used for roadways and bridges shall include the statement "FOR ROADWAYS AND BRIDGES ONLY (Not for Use on Curbs and Gutters, Sidewalks, Islands, Driveways and Other Miscellaneous Concrete Areas)" prominently displayed, effective July 1, 2007.

(8) Each manufacturer of the following coating categories shall, on or before April 1 of each calendar year submit an annual report to the Executive Officer:
   (A) Recycled coatings, including the gallons repackaged and distributed in the District.
   (B) Shellacs
   (C) Specialty primers.
The report shall specify the number of gallons of each coating within the category sold in the District during the preceding calendar year as well as
their coating VOC content, and shall describe the method used by the manufacturer to calculate such sales.

(9) A manufacturer, distributor, or seller of a coating meeting the requirements of this rule, who supplies that coating to a person who applies it in a non-compliant manner, shall not be liable for that non-compliant use, unless the manufacturer, distributor, or seller knows that the supplied coating would be used in a non-compliant manner.

(10) Manufacturers of recycled coatings shall submit a letter to the Executive Officer certifying their status as a Recycled Paint Manufacturer.

(e) Test Methods
For the purpose of this rule, the following test methods shall be used:

(1) VOC Content of Coatings
The VOC content of coatings subject to the provisions of this rule shall be determined by:

(A) U.S. EPA Reference Test Method 24 (Determination of Volatile Matter Content, Water Content, Density, Volume Solids, and Weight Solids of Surface Coatings, Code of Federal Regulations Title 40, Part 60, Appendix A) with the exempt compounds’ content determined by Method 303 (Determination of Exempt Compounds) in the South Coast Air Quality Management District's (SCAQMD) "Laboratory Methods of Analysis for Enforcement Samples" manual, or


(C) Exempt Perfluorocarbons
The following classes of compounds:
cyclic, branched, or linear, completely fluorinated alkanes
cyclic, branched, or linear, completely fluorinated ethers with no unsaturations
cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations
sulfur-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine
will be analyzed as exempt compounds for compliance with subdivision (c), only when manufacturers specify which individual compounds are used in the coating formulations. In addition, the manufacturers must identify the U.S. EPA, CARB, and SCAQMD approved test methods, which can be used to quantify the amount of each exempt compound.

(2) Acid Content of Coatings
The acid content of a coating subject to the provisions of this rule shall be determined by ASTM Test Method D 1613-85 (Acidity in Volatile Solvents and Chemical Intermediates Used in Paint, Varnish, Lacquer, and Related Products).

(3) Metal Content of Coatings
The metallic content of a coating subject to the provisions of this rule shall be determined by Method 318 (Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction) in the SCAQMD's "Laboratory Methods of Analysis for Enforcement Samples" manual.

(4) Flame Spread Index
The flame spread index of a fire-retardant coating subject to the provisions of this rule shall be determined by ASTM Test Method E 84-05 (Standard Test Method for Surface Burning Characteristics of Building Materials), or the most recent version, after application to an organic or inorganic substrate, based on the manufacturer's recommendations.

(5) Drying Times
The set-to-touch, dry-hard, dry-to-touch, and dry-to-recoat times of a coating subject to the provisions of this rule shall be determined by ASTM Test Method D 1640 (Standard Test Methods for Drying, Curing, or Film Formation of Organic Coatings at Room Temperature). The tack-free time of a coating subject to the provisions of this rule shall be determined by ASTM Test Method D 1640, according to the Mechanical Test Method.

(6) Gloss Determination
The gloss shall be determined by ASTM Test Method D 523 (Specular Gloss).

(7) Equivalent Test Methods
Other test methods determined to be equivalent after review by the Executive Officer, CARB, and the U.S. EPA, and approved in writing by the District Executive Officer may also be used.
Rule 1113 (Cont.) (Amended July 13, 2007)

(8) **Multiple Test Methods**
When more than one test method or set of test methods are specified for any testing, a violation of any requirement of this rule established by any one of the specified test methods or set of test methods shall constitute a violation of the rule.

(9) All test methods referenced in this subdivision shall be the version most recently approved by the appropriate governmental entities.

(f) **Technology Assessment**
The Executive Officer shall conduct a technology assessment for the future VOC limit as specified in paragraph (c)(2) for flat coatings by July 1, 2007. In conducting the assessment, the Executive Officer shall consider any applicable future CARB surveys on architectural coatings and shall report to the Governing Board as to the appropriateness of maintaining the future VOC limit.

(g) **Exemptions**
(1) The provisions of this rule shall not apply to:
   (A) Architectural coatings in containers having capacities of one quart or less, provided that the manufacturer submits an annual report to the Executive Officer within three months of the end of each calendar year. The report shall contain information as required by the Executive Officer to monitor the use of the small container exemption. The loss of this exemption due to the failure of the manufacturer to submit an annual report shall apply only to the manufacturer. Effective July 1, 2006 clear wood finishes, including varnishes and sanding sealers; and lacquers, including pigmented lacquers, in containers having capacities of one quart or less shall no longer be exempt from the requirements of this rule.
   (B) Architectural coatings sold in this District for shipment outside of this District or for shipment to other manufacturers for repackaging; or
   (C) Emulsion type bituminous pavement sealers; or
   (D) Aerosol coating products.
   (E) Use of stains and lacquers in all areas within the District at an elevation of 4,000 feet or greater above sea level.
(2) Notwithstanding the provisions of paragraph (c)(2), a person or facility may add up to 10 percent by volume of VOC to a lacquer to avoid blushing of the finish during days with relative humidity greater than 70 percent and temperature below 65 degrees Fahrenheit, at the time of application provided that:

(A) The coating is not applied from April 1 to October 31 of any year.
(B) The coating contains acetone and no more than 550 grams of VOC per liter of coating (275 grams of VOC per liter of coating after January 1, 2005), less water and exempt compounds, prior to the addition of VOC.

(3) The January 1, 2005 VOC limit for lacquers shall not be applicable until January 1, 2007 and the July 1, 2008 VOC limit for flat coatings shall not be applicable to any manufacturer which meets all of the following criteria:

(A) The total gross annual receipts are $2,000,000 or less, and
(B) The total number of employees is 100 or less, and
(C) The manufacturer requesting this exemption files a written request with the Executive Officer annually which includes, but is not limited to:

(i) The total gross annual receipts for each of the last three years.
(ii) The total number of employees for each of the last three years.

For the purposes of determining the total gross annual receipts and the total number of employees, a manufacturer shall include data from all facilities (both within and outside of the District) which they own, operate, have an ownership interest, or are legally affiliated. If a manufacturer exceeds the criteria specified in subparagraphs (g)(3)(A) or (g)(3)(B) any time after the initial request is filed with the Executive Officer, this exemption shall be immediately terminated, the manufacturer shall forfeit any future eligibility for this exemption, and the manufacturer shall be considered in violation of this rule for each and every day that lacquers or flat coatings which do not comply with the respective VOC limit in the Table of Standards are supplied, sold, or offered for sale within the District. The loss of this exemption due to the manufacturer exceeding the
criteria in subparagraphs (g)(3)(A) or (g)(3)(B) shall apply only to the manufacturer.

(4) The provisions of paragraph (c) shall not apply to facilities which apply coatings to test specimens for purposes of research and development of those coatings.

(5) The July 1, 2006 VOC limit for nonflats, primers, sealers, and undercoaters, quick-dry enamels, waterproofing concrete/masonry sealers and rust-preventative coatings shall not be applicable until July 1, 2008 to any manufacturer which meets all of the following criteria:

(A) The total gross annual receipts are $5,000,000 or less, and

(B) The total number of employees is 100 or less, and

(C) The manufacturer requesting this exemption files a written request with the Executive Officer annually which includes, but is not limited to:

(i) The total gross annual receipts for each of the last three years.

(ii) The total number of employees for each of the last three years.

For the purposes of determining the total gross annual receipts and the total number of employees, a manufacturer shall include data from all facilities (both within and outside of the District) which they own, operate, have an ownership interest, or are legally affiliated. If a manufacturer exceeds the criteria specified in subparagraphs (g)(5)(A) or (g)(5)(B) any time after the initial request is filed with the Executive Officer, this exemption shall be immediately terminated, the manufacturer shall forfeit any future eligibility for this exemption, and the manufacturer shall be considered in violation of this rule for each and every day that nonflats, primers, sealers, and undercoaters, quick-dry enamels, and rust-preventative coatings do not comply with the respective VOC limit in the Table of Standards are supplied, sold, or offered for sale within the District. The loss of this exemption due to the manufacturer exceeding the criteria in subparagraphs (g)(5)(A) or (g)(5)(B) shall apply only to the manufacturer.

(6) Effective January 1, 2005 through December 31, 2006, roof coatings with a VOC content of 100 grams per liter or less that are certified under the
U.S. EPA Energy Star Program shall not be subject to the VOC limit in the Table of Standards.
APPENDIX A: Averaging Compliance Option (ACO) Provision

(A) The manufacturer shall demonstrate that actual emissions from the coatings being averaged are less than or equal to the allowable emissions, for the specified compliance period using the following equation:

\[ \sum_{i=1}^{n} G_i M_i \leq \sum_{i=1}^{n} G_i V_i L_i \]

Where:

- \( \sum_{i=1}^{n} G_i M_i \) = Actual Emissions
- \( \sum_{i=1}^{n} G_i V_i L_i \) = Allowable Emissions
- \( G_i \) = Total Gallons of Product (i) subject to Averaging;
- \( M_i \) = Material VOC content of Product (i), as pounds per gallon; {as defined in paragraph (b)(22)}
- \( V_i \) = Percent by Volume Solids and VOC in Product (i), {as defined in paragraph (b)(21)}

\[ V_i = \frac{V_m - V_w - V_e s}{V_m} \]

For Non-Zero VOC Coatings:

\[ = \frac{\text{MaterialVOC}}{\text{CoatingVOC}} \]

For Zero VOC coatings:

\[ = \% \text{ solids by volume} \]

- \( L_i \) = Regulatory VOC Content Limit for Product (i), as pounds per gallon; {as listed in paragraph (c)(2) Table of Standards}

The averaging is limited to coatings that are designated by the manufacturer. Any coating not designated in the ACO Program shall comply with the VOC limit in the Table of Standards. The manufacturer shall not include any quantity of coatings that it knows or should have known will not be used in the District.
In addition to the requirements specified in Section (A), a manufacturer shall not include in an ACO Program or supply, sell, offer for sale, manufacture, blend, or repackage for use within the District any architectural coating with a VOC content in excess of the maximum VOC content in effect, immediately prior to July 1, 2001 or the VOC content limits specified in the National VOC Emission Standard, whichever is less. Manufacturers that submitted the required 2005 annual report for clear wood finish containers of one quart or less, may include in an ACO Program varnishes and sanding sealers so long as these coatings sold in such containers do not exceed the applicable National Standard of 450 grams of VOC per liter of coating less water and less exempt compounds, in lieu of the otherwise applicable VOC limit of 350 grams per liter.

(B) ACO Program
At least six months prior to the start of the compliance period, manufacturers shall submit an ACO Program, which is subject to all the provisions of Rule 221 – Plans and Rule 306 – Plan Fees, to the Executive Officer. Averaging may not be implemented until the ACO Program is approved in writing by the Executive Officer.

Within 45 days of submittal of an ACO Program, the Executive Officer shall approve, disapprove or deem the ACO Program incomplete. The ACO Program applicant and the Executive Officer may agree to an extension of time for the Executive Officer to take action on the ACO Program.

(C) General Requirements
The ACO Program shall include all necessary information for the Executive Officer to make a determination as to whether the manufacturer may comply with the averaging requirements over the specified compliance period in an enforceable manner. Such information shall include, but is not limited to, the following:

1. An identification of the contact persons, telephone numbers, and name of the manufacturer who is submitting the ACO Program.

2. An identification of each coating that has been selected by the manufacturer for inclusion in this ACO Program that exceeds the applicable VOC limit in the Table of Standards, their VOC content specified in units of both grams of VOC per liter of coating, and grams of VOC per liter of material and the designation of the coating category.
3. A detailed demonstration showing that the projected actual emissions will not exceed the allowable emissions for a single compliance period that the ACO Program will be in effect. In addition, the demonstration shall include VOC content information for each coating that is below the compliance limit in the Table of Standards. The demonstration shall use the equation specified in paragraph (A) of this Appendix for projecting the actual emissions and allowable emissions during each compliance period. The demonstration shall also include all VOC content levels and projected volume to be sold and distributed, as applicable, within the District for each coating listed in the ACO Program during each compliance period. The requested data can be summarized in a matrix form.

4. A specification of the compliance period(s) and applicable reporting dates. The length of the compliance period shall not be more than one year nor less than six months.

5. An identification and description of specific records to be used to calculate emissions and track coating volume for the ACO Program and subsequent reporting. This shall include a detailed explanation as to how the records are to be used to demonstrate compliance with the averaging requirements of the ACO Program. Such records or electronic versions (if hardcopy originals are not generated) shall be made available to the Executive Officer upon request. These records shall include records from each of the following categories:

(a) product formulation records (including both coating and material VOCs):
   (1) lab reports [including percent weight of non-volatiles, water, and exempts (if applicable); density of the coating; and raw laboratory data] of test methods conducted as specified in paragraph (e)(1) of the rule or
   (2) product formulation data, including physical properties analyses, as applicable, with a VOC calculation demonstration; and

(b) production records consisting of batch tickets including the date of manufacture, batch weight and volume; and

(c) distribution records:
   (1) customer lists or store distribution lists or both (as applicable) and
(2) shipping manifests or bills of lading or both (as applicable); and

(d) sales records consisting of point of sale receipts or invoices to local distributors or both, as applicable.

If the manufacturer requests to demonstrate compliance with the ACO Program by using records other than those specifically listed above, those records must be approved by the U.S. EPA, CARB, and the Executive Officer before an ACO Program can be approved. The Executive Officer may request additional records, as necessary, as a condition of approving the ACO Program or to verify compliance.

6. A statement, signed by a responsible party for the manufacturer, certifying that all information submitted is true and correct, and that records will be made available to the Executive Officer upon request.

(D) Reporting Requirements

1. For every single compliance period, the manufacturer shall submit to the Executive Officer a mid-term report listing all coatings subject to averaging during the first half of the compliance period, detailed analysis of the actual and allowable emissions at the end of the mid-term, and if actual emissions exceed allowable emissions an explanation as to how the manufacturer intends to achieve compliance by the end of the compliance period. The report shall be signed by the responsible party for the manufacturer, attesting that all information submitted is true and correct. The mid-term report shall be submitted within 45 days after the midway date of the compliance period. A manufacturer may request, in writing, an extension of up to 15 days for submittal of the mid-term report.

2. Within 60 days after the end of the compliance period or upon termination of the ACO Program, whichever is sooner, the manufacturer shall submit to the Executive Officer a final report, providing a detailed demonstration of the balance between the actual and allowable emissions for the compliance period, an update of any identification and description of specific records used by the manufacturer to verify compliance with the averaging requirement, and any other information requested by the Executive Officer to determine whether the manufacturer complied with the averaging requirements over the specified compliance period. The report shall be signed by the responsible party for the manufacturer,
attesting that all information submitted is true and correct, and that records will be made available to the Executive Officer upon request. A manufacturer may request, in writing, an extension of up to 30 days for submittal of the final report.

(E) Renewal of an ACO Program

An ACO Program automatically expires at the end of the compliance period. The manufacturer may request a renewal of the ACO Program by submitting a renewal request that shall include an updated ACO Program, meeting all applicable ACO Program requirements. The renewal request will be considered conditionally approved until the Executive Officer makes a final decision to deny or approve the renewal request based on a determination of whether the manufacturer is likely to comply with the averaging requirements. The Executive Officer shall base such determination on all available information, including but not limited to, the mid-term and final reports of the preceding compliance period. The Executive Officer shall make a decision to deny or approve a renewal request no later than 45 days from the date of the final report submittal, unless the manufacturer and the Executive Officer agree to an extension of time for the Executive Officer to take action on the renewal request.

(F) Modification of an ACO Program

A manufacturer may request a modification of the ACO Program at any time prior to the end of the compliance period. The Executive Officer shall take action to approve or disapprove the modification request no longer than 45 days from the date of its submittal. No modification of the compliance period shall be allowed. An ACO Program need not be modified to specify additional coatings to be averaged that are below the applicable VOC limits.

(G) Termination of an ACO Program

1. A manufacturer may terminate its ACO Program at any time by filing a written notification to the Executive Officer. The filing date shall be considered the effective date of the termination, and all other provisions of this rule including the VOC limits shall immediately thereafter apply. The manufacturer shall also submit a final report 60 days after the termination date. Any exceedance of the actual emissions over the allowable emissions over the period that the ACO Program was in effect shall
constitute a separate violation for each day of the entire compliance period.

2. The Executive Officer may terminate an ACO Program if any of the following circumstances occur:
   (a) The manufacturer violates the requirements of the approved ACO Program, and at the end of the compliance period, the actual emissions exceed the allowable emissions.
   (b) The manufacturer demonstrates a recurring pattern of violations and has consistently failed to take the necessary steps to correct those violations.

(H) Change in VOC Limits

If the VOC limits of a coating listed in the ACO Program are amended such that its effective date is less than one year from the date of adoption, the affected manufacturer may base its averaging on the prior limits of that coating until the end of the compliance period immediately following the date of adoption.

(I) Labeling

Each container of any coating that is included in an ACO Program, and that exceeds the applicable VOC limit in the Table of Standards shall display the following statement: “This product is subject to the averaging provisions of SCAQMD Rule 1113”. A symbol specified by the Executive Officer may be used as a substitute.

(J) Violations

The exceedance of the allowable emissions, as defined in Appendix A, Section (A), at the end of any compliance period shall constitute a separate violation for each coating product line that is over the VOC limit specified in the Table of Standards for each day of the compliance period. However, any violation of the requirements of the ACO Provision of this rule, which the violator can demonstrate, to the Executive Officer, did not cause or allow the emission of an air contaminant and was not the result of negligent or knowing activity may be considered a minor violation (pursuant to District Rule 112).

(K) Sell-Through Provision
A coating that is included in an approved ACO Program that does not comply with the specified limit in the Table of Standards may be sold, supplied, offered for sale, or applied for up to three years after the end of the compliance period specified in the approved ACO Program. This section of Appendix A does not apply to any coating that does not display on the container either the statement: “This product is subject to architectural coatings averaging provisions of the SCAQMD Rule 1113” or a designated symbol specified by the Executive Officer of the SCAQMD.
ATTACHMENT F

FINAL STAFF REPORT FOR

PROPOSED AMENDED RULE 1113 - ARCHITECTURAL COATINGS
FINAL STAFF REPORT FOR
PROPOSED AMENDED RULE 1113 – ARCHITECTURAL COATINGS

July 2007

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EXECUTIVE SUMMARY

Rule 1113 – Architectural Coatings was first adopted in 1977 and has been amended numerous times. It is applicable to manufacturers, distributors, and end-users of architectural coatings. In November 1996, the South Coast Air Quality Management District (AQMD) Governing Board (Board) amended Rule 1113 - Architectural Coatings to include an averaging compliance provision as a flexibility option providing a more cost-effective and flexible approach for manufacturers to transition compliant product lines into the marketplace. To use the Averaging Compliance Option successfully, a manufacturer must be able to distribute sufficient volumes of products with VOC content below applicable limits in order to offset the excess emissions from products with VOC content above the limits. One limitation of using the ACO, requires a manufacturer to have a broad array of commercial products, with sufficient volume of sales of products that are below the applicable VOC limit.

One manufacturer, affected by the limitation of the ACO described above, has recently requested that the Stationary Source Committee, a subcommittee of the Board, direct staff to prepare amendments to Rule 1113 by removing the specialty primer category from the ACO provision because they were at a competitive disadvantage. The Stationary Source Committee, as a result of these discussions, directed staff to propose an amendment to Rule 1113 – Architectural Coatings to remove specialty primers from the ACO provision. After staff commenced rule making and subsequent to the Stationary Source committee’s direction to staff, the manufacturer withdrew its request. The Stationary Source Committee then advised staff the requested rule amendment would not be necessary.

However, during implementation of recent amendments to the rule, it became apparent that by adding mica to the definition of metallic pigmented coatings it is improperly less restrictive than the federal definition and a correction to delete mica from the definition is therefore necessary. Staff also became aware that the test method in the rule used to determine the metal content of metallic pigmented coatings was outdated. In addition, during the public outreach it was pointed out that a sentence in the Appendix to the Rule is obsolete and therefore it is proposed to be deleted.

STAFF PROPOSAL

Staff has withdrawn the proposal to amend the ACO provision but is continuing to propose the following amendments to clarify issues related to rule implementation:

- Amend the definition of metallic pigmented coatings to make it consistent with the federal AIM rule by removing the words “mica particles or any combination of metallic pigments and mica particles.”

- Update the Test Method used to determine the weight percent of elemental metal in metallic coatings, to reflect current practice.

- Delete the following obsolete sentence from Appendix A, Section A of the rule: “Manufacturers that submitted an annual exemption report in 2002 for quick-dry primers, sealers and undercoaters and included those coatings in their most recent approved ACO Program, may continue to average those coatings until July 1, 2006, so long as these coatings do not exceed 450 grams of VOC per liter of coating less water.
and less exempt compounds, in lieu of the otherwise applicable VOC limit of 350 grams per liter.”

**STAFF ASSESSMENT FOR THE PROPOSED AMENDMENTS**

**Metallic Pigmented Coatings**

Staff developed the metallic pigmented coating category with a VOC limit of 500 g/l for decorative coatings containing at least 0.4 pounds per gallon (48 grams/liter) of metal such as gold and silver. The category does not include coatings in other categories with much lower VOC limits such as industrial maintenance coatings, zinc primers, and roof coatings that might contain metals as well. In 2003, at the request of some manufacturers, staff added mica to the definition of metallic pigmented coatings to allow a wider range of metallic color choices. During the implementation phase of this definition, it became apparent, however, that the addition of mica made the definition of metallic pigmented coatings less restrictive than the federal definition for a metallic pigmented coating, which does not include mica under the “National Volatile Organic Compound Emission Standards for Architectural Coatings.” A local air district rule cannot be less stringent than a federal regulation, but may be more restrictive; therefore, the staff proposal will eliminate reference to mica making the definition consistent with the federal definition, but continue to exclude all industrial coatings and roof coatings from the metallic pigmented coating definition, which is more restrictive than the federal definition. On January 9, 2007, staff mailed a letter to architectural coating manufacturers and their association, clarifying that mica would not be considered as part of the metallic content standard of 0.4 pounds per gallon included in the definition. A copy of the letter is included as Attachment A.

**Test Method**

Staff is recommending the test method referred to in Rule 1113 - Architectural Coatings paragraph (e)(3), AQMD Method 311 Determination of Percent Metal in Metallic Coatings by Spectrographic Method, be updated to AQMD Method 318 Determination of Weight Percent Elemental Metal in Coatings by X-Ray Diffraction to reflect the method used in current practice. Although AQMD Method 311 is a valid method, it is based on outdated technology and requires equipment that the AQMD does not have and can no longer obtain. The AQMD laboratory has developed Method 318, an improved method for the determination of the elemental metal content in coatings. Method 318 has been accepted by the U.S. EPA and adopted by other regulatory agencies throughout California and the rest of the Nation. The AQMD laboratory specifically developed Method 318 to address the analysis of elemental aluminum because that was the metal of interest in the majority of the coatings at the time of the test method development. The test method states that it is currently only validated for the determination of the weight percent of elemental aluminum but also states that it is applicable for the determination of other elemental metals or crystalline materials for which appropriate standards are available and reasonable performance has been demonstrated. Validation of Method 318 for other elemental metals could be completed as necessary.

**EMISSIONS IMPACT, COST AND COST-EFFECTIVENESS**

Since mica is not a VOC, mica’s removal from the definition of metallic pigmented coatings will not impact emissions. The other proposed change to update the test method will likewise not impact emissions but make the rule more enforceable.
The updated test method is currently in use nation-wide as the standard and therefore, no additional costs are expected from its use.

Since this is not an Air Quality Management Plan (AQMP) control measure and there is no change in emissions or costs from the proposed amendments, there is no requirement to conduct a Socioeconomic Impact Assessment.

**CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)**

The proposed amendments to Rule 1113 - Architectural Coatings has been reviewed pursuant to CEQA and an appropriate CEQA document has been prepared and will be considered for certification concurrently with the consideration for adoption of PAR 1113.

**SOCIOECONOMIC ASSESSMENT**

The proposed amendments to Rule 1113 do not significantly affect air quality or emissions limitations and therefore, a socioeconomic impact analysis pursuant to Health and Safety Code Section 40440.8 is not required.

**LEGISLATIVE AUTHORITY**

The California Legislature created the AQMD in 1977 (The Lewis Presley Air Quality Management Act, Health and Safety Code Section 40400 et seq.) as the agency responsible for developing and enforcing air pollution controls and regulations in the Basin. By statute, the AQMD is required to adopt an AQMP demonstrating compliance with all state and federal ambient air quality standards for the Basin [California Health and Safety Code Section 40440(a)]. Furthermore, the AQMD must adopt rules and regulations that carry out the AQMP [California Health and Safety Code Section 40440(a)]

**AQMP AND LEGAL MANDATES**

The California Health and Safety Code requires the AQMD to adopt an AQMP to meet state and federal ambient air quality standards in the South Coast Air Basin. In addition, California Health and Safety Code requires the AQMD to adopt rules and regulations that carry out the objectives of the AQMP. Although the proposed amendments do not result in emission reductions, the amendments are consistent with AQMP objectives. This proposal does not impose a new emission limit or standard, make an existing emission limit or standard more stringent or impose new or more stringent monitoring, reporting or recordkeeping requirements and therefore, is not subject to the comparative analysis provisions of Health and Safety Code Section 40727.2.

**DRAFT FINDINGS UNDER CALIFORNIA HEALTH AND SAFETY CODE**

Health and Safety Code Section 40727 requires that prior to adopting, amending or repealing a rule or regulation, the AQMD Governing Board shall make findings of necessity, authority, clarity, consistency, non-duplication, and reference based on relevant information presented at the hearing. The draft findings are as follows:

**Necessity** - The AQMD Governing Board has determined that a need exists to amend Rule 1113 - Architectural Coatings to amend the definition of metallic pigmented coatings, update
the test method for metallic pigmented coatings and delete outdated text in Appendix A, Section A of the rule.

**Authority** - The AQMD Governing Board obtains its authority to adopt, amend, or repeal rules and regulations from Health and Safety Code Sections 39002, 40000, 40001, 40440, 40702, and 41508.

**Clarity** - The AQMD Governing Board has determined that the proposed amendments to Rule 1113 - Architectural Coatings, are written and displayed so that the meaning can be easily understood by persons directly affected by them.

**Consistency** - The AQMD Governing Board has determined that PAR 1113 - Architectural Coatings, is in harmony with, and not in conflict with or contradictory to, existing statutes, court decisions, federal or state regulations.

**Non-Duplication** - The AQMD Governing Board has determined that the proposed amendments to Rule 1113 - Architectural Coatings do not impose the same requirement as any existing state or federal regulation, and the proposed amendments are necessary and proper to execute the powers and duties granted to, and imposed upon, the AQMD.

**Reference** - In adopting these amendments, the AQMD Governing Board references the following statutes which the AQMD hereby implements, interprets or makes specific: Health and Safety Code Sections 40001 (rules to achieve ambient air quality standards), 40440(a) (rules to carry out the Air Quality Management Plan), and 40440(c) (cost-effectiveness), 40725 through 40728 and Federal Clean Air Act Sections 171 et sq., 181 et seq., and 116.

**CONCLUSION AND RECOMMENDATION**

Staff recommends amendments to the definition of metallic pigmented coatings to be consistent with the federal definition, updating the test method to determine the weight of elemental metals in metallic pigmented coatings and deleting outdated language in Appendix A, Section A of Rule 1113.

**REFERENCES**


**COMMENTS AND RESPONSES**

During the rule making process, both oral and written questions, comments, and suggestions were received and reviewed by staff and are summarized in this section. After the review, staff revised the proposed amendments to reflect many of the comments and suggestions. If comments regarding the same topic were received from different individuals, staff summarized the topic into one comment and response.

U.S EPA sent a rule review comment letter on the Proposed Amended Rule 1113, work shopped on April 19, 2007, and strongly support the removal of mica from the Rule 1113 definition of metallic pigmented coatings so the definition will be as stringent as the metallic pigmented coating definition in the National AIM Rule in 40 CFR Part 59 Subpart D.
Final Staff Report

Comment: Dry-fog coatings should be added to those categories allowed to be averaged in the Averaging Compliance Option of Rule 1113. The solvent-based dry-fog coatings do not require as much preparation prior to painting as the water-based dry-fog coatings, which do not adhere to dirty substrates found in areas such as industrial buildings.

Response: Dry-fog (dry-fall) coatings are defined as coatings applied by spray application only so that the overspray droplets dry before falling on floors and other surfaces. After staff contacted and met with manufacturers of dry-fog coatings during amendments to Rule 1113 in 2006, the main issues discussed were potential slower dry times associated with low-VOC coatings especially during high humidity conditions and adherence of the coating to dirty surfaces. It was generally agreed that low-VOC dry-fog coatings might require more substrate preparation than a solventborne coating. However, waterborne acrylic dry-fog coatings are an environmentally acceptable alternative to traditional solvent-based ceiling coatings. They emit a very low odor during application, and have a low flash point. Waterborne acrylic dry-fog coatings are especially well suited for spaces with pre-cast concrete or steel beam ceilings. They can save time and make application easier in an occupied space. Staff’s technology assessment confirmed excellent market penetration and currently available dry-fog coatings at 150 g/l or less. The amendments resulted in lowering the VOC limit for dry-fog coatings from 400 g/l to 150 g/l effective July 1, 2007. At that time architectural coating manufacturers did not request that dry-fog coatings be added to the list of categories allowed to be averaged in the Averaging Compliance Option (ACO).

California Air Resources Board (CARB) is proposing changes to the Architectural Coatings Suggested Control Measure for adoption in 2007. AQMD staff will be reviewing the adopted amendments along with the most recent California architectural coating sales and emission data provided by CARB, to further assess emission reductions for Rule 1113. At that time staff will also evaluate allowing additional coating categories to be averaged in the ACO.

Comment: CARB held a workshop on architectural coatings and they stated in that meeting that their Board does not want staff to encourage the exemption of carcinogens and they were referring to a question on Tertiary-Butyl Acetate (TBAc) that one of the industry people asked if it were going to be exempted in the industrial maintenance coatings. So CARB through their Board has decided not to consider exemptions for TBAc. I would like to request that the AQMD revisit the exemption of TBAc for industrial maintenance coatings.

Response: The commentator made the same request during the 2006 amendments to Rule 1113 during which TBAc was exempted from the definition of volatile organic compounds (VOC) for use in industrial maintenance coatings (IM) only. A full review of comments both supporting the use of TBAc in architectural coatings and objections to its use along with staffs responses to comments may be read in the CEQA analysis and the comments and response section of the Staff Report for the June 2, 2006 Rule 1113 amendments.

Briefly, staff made the decision to exempt TBAc for IM coatings based on its risk assessment for use in IM Coatings, where applicators typically use Personal Protective Equipment (PPE) including respirators, and the distance to sensitive receptors is
sufficient to mitigate the acute risks. The health risk analysis was prepared for AQMD staff using standard health risk protocol, health risk values provided by California’s Office of Environmental Health Hazard Assessment (OEHHA) staff and parameters used by CARB to estimate risk from TBAc. In the case of TBAc, there is little available information on the toxicity of TBAc, but there is some toxicity information available on one of its metabolites, tert-butyl alcohol (TBA). While there are studies that indicate tumors in rats and mice when exposed to high concentrations of TBA, TBA has not yet been classified as a human carcinogen. In analyzing TBAc’s impacts staff also considered CARB documents that assert TBAc’s ozone reduction benefits. Staff’s very conservative analysis from the use of TBAc based products only, indicates that the potential chronic cancer risk and acute risk is below the AQMDs significant risk threshold. Staff does not recommend expanding the exemption for TBAc to other categories because alternative compliant products that do not pose the added potential risk exist. By limiting the exemption for TBAc to IM coatings, the AQMD recognizes and limits the potential cancer risk exposure due to the use of TBAc while providing the coating manufacturers with flexibility in formulating products compliant with the future IM coatings limits in PAR 1113. Staff will continue to evaluate additional information relative to TBAc’s toxicity including toxicity studies conducted by the manufacturer of TBAc, as it becomes available and reevaluate its position as necessary.

Comment: AQMD should consider a broader exemption of TBAc for other categories of architectural coatings during this amendment.

Response: See the above response.

Comment: The AQMD should reconsider the methodology by which you are trying to achieve your ends. To preclude the broad concept of industrial maintenance coatings from ever being a metallic pigmented coatings doesn’t make sense to me. Aluminum metallic pigmented coatings are both decorative and functional as a protective coating. The proposed definition would only allow the coating to be marketed as a decorative coating without functionality. The definition could say the coatings must have metallic appearance, they should look metallic, gold, silver, or bronze-like which would give the decorative appearance staff is looking for. Functionality should not be eliminated from the definition.

Response: Staff’s primary issue with the definition of metallic pigmented coatings is to remove reference to mica particles in order to make the definition as stringent as the federal and state definition for this category. In response to several comments regarding the proposed changes to the definition of metallic pigmented coatings, staff will remove the word “decorative” recognizing that metallic pigmented coatings have both functionality and decorative characteristics. In addition, staff will also remove reference to the exclusion of “all industrial maintenance coatings” with a reminder that the most restrictive clause in the rule requires a coating to have the lower VOC limit if the coating is labeled or advertised to fall into two or more coating categories.

Comment: Staff might want to consider whether the following sentence located in Appendix A, Section (A) is necessary: “Manufacturers that submitted an annual exemption report in 2002 for quick-dry primers, sealers and undercoaters and included those coatings in their most recent approved ACO Program, may continue to average those coatings until July 1, 2006, so
long as these coatings do not exceed 450 grams of VOC per liter of coating less water and less exempt compounds, in lieu of the otherwise applicable VOC limit of 350 grams per liter.”

**Response:** Thank you for pointing out the obsolete language which staff is proposing to delete from Appendix A, Section A of Rule 1113.

**Comment:** Several commentators strongly suggested that staff should not remove primers, sealers, undercoaters; quick-dry primers, sealers, undercoaters; and specialty primers from the Averaging Compliance Option. Allowing these categories to be in the averaging provision provides more flexibility to the manufacturers and does not affect emission reductions for the AQMD one way or the other. Some commentators expressed a need for the lower VOC primers in the averaging provision to offset emissions from high-VOC products in other categories.

**Response:** The amendments to the ACO provision has been withdrawn from the staff proposal. The Stationary Source Committee Board members directed staff to propose an amendment to remove specialty primers from the Averaging Compliance Option at the request of an architectural coating manufacturer (as explained in this Staff Report) when it was determined the requesting manufacturer could not take advantage of the ACO as its competitors have been able to do. It is noted that since staff received that direction from the Stationary Source Committee, the manufacturer has withdrawn its request for the amendment.

**Comment:** The proponent of the initial request to remove specialty primers from the Averaging Compliance Option has notified staff it wishes to withdraw that request. Subsequent to the last Stationary Source Committee meeting some unintended consequences were made apparent and therefore; the proponent has since submitted a letter to the AQMD requesting withdrawal of the initial request. All Board members of the Stationary Source Committee, the Chairman of the Governing Board and the Executive Officer have been made aware of the withdrawal request and discussion of this matter will be included on the next Stationary Source Committee Meeting agenda.

**Response:** See the above comment and response.

**Comment:** The averaging program provides a needed mechanism for the continued supply of effective architectural and industrial maintenance coatings in the face of ever more stringent reductions in the VOC content of the coatings mandated by Rule 1113. We oppose many of the VOC limits of the rule because we believe that they do not allow technologically feasible coatings to be manufactured with all of their necessary performance characteristics. We do not believe that the averaging program can fully compensate for these deficiencies in Rule 1113. Moreover, not all companies can avail themselves of the benefits of the program because they do not have a sufficiently large product mix to allow them to do so.

**Response:** During litigation on the VOC limits specified in The Table of Standards for Rule 1113, the courts have validated staff’s technology assessments showing that low-VOC coating performance characteristics meet or exceed those of their higher-VOC counterpart. The current proposal does not change any VOC limits and staff does not recommend relaxing any VOC limits. Staff relies on a number of key sources of data and information for determining the availability and performance of coatings. These include:
CARB Surveys which provide sales, emission data, market penetration and VOC content of coatings actually sold in California.

Web-based searches where staff has found compliant and super-compliant low-VOC coatings verified by examining Technical Data Sheets and Material Safety Data Sheets.

Field Visits to New Construction Sites where staff visited more than 100 new construction sites in 2004 and 2005 in order to determine what products the contractors are using and whether they are working. Overall, most of the construction sites visited had applied architectural coatings that are much lower than the current specified limits in many different categories and had used many super-compliant products that meet the future limits in Rule 1113. Even with the super-compliant products, all of the contractors indicated that they were satisfied with their performance.

Performance studies by various public service agencies which have completed testing of low-VOC industrial maintenance coatings (some with the exempt solvent TBAC) in recent years and have found compliant products with acceptable performance.

Meetings with local manufacturers (large and small) to inquire about their successes and failures in preparing for the low-VOC limits. These manufacturers indicated that compliant products are available and that they exhibit acceptable performance for their markets.

A point of distribution survey of local store inventories. The primary purpose of the surveys was to obtain a snapshot of the currently available architectural products being sold from store shelves. This limited survey indicated that products meeting the 2006 VOC limits were available and being sold to consumers.

A review of select technical papers and articles on advancements in the coatings industry. Manufacturers of coatings rely heavily on the research and development efforts of the raw materials suppliers. Successful reformulation by individual coating companies requires different resins and additives. The 2005 Annual Status Report on architectural coatings provides excerpts from these articles that overwhelmingly indicate that there are ongoing technological achievements to support compliant product formulation. Papers presented at the recent Western Coatings Society Symposium and Show indicate the availability and support from resin and additive suppliers of low-VOC components that meet and exceed the future VOC limits in Rule 1113 and expected performance characteristics as compared to traditional higher VOC containing materials.

AQMD contracted performance studies with industry experts to conduct laboratory studies to assess the performance characteristics of low-VOC products. A review of these studies supports staff conclusions that overall super-compliant coatings meet or exceed expected characteristic performance standards when compared to products that have much higher VOC content.

Studies of alternate means of compliance provided by the rule by examining the number of manufacturers who have taken advantage of the Averaging Compliance Option and sell-through provisions as well as the small container exemption.
ATTACHMENT A

Letter to coating manufacturers, distributors and associations regarding metallic pigmented coatings
Dear Coating Manufacturer/Distributor:

January 9, 2007

Re: METALLIC PIGMENTED COATING

The South Coast Air Quality Management District (AQMD) is the local air pollution control agency responsible for the non-desert portion of Los Angeles county, the lower desert portion of San Bernardino county, the western section of Riverside county (as far east as the Salton Sea area) and all of Orange county. This outreach letter is intended to expand upon the definition of a metallic pigmented coating.

As a manufacturer or distributor of architectural coating products, you should be aware that AQMD Rule 1113 (www.aqmd.gov/rules/reg11/r1113.pdf), Architectural Coatings, is applicable to any person who supplies, sells, offers for sale, or manufactures any architectural coating for use in the AQMD jurisdiction that is intended to be field applied to stationary structures or their appurtenances, and to mobile homes, pavements or curbs; as well as any person who applies or solicits the application of any architectural coating. The purpose of this rule is to limit the VOC content of architectural coatings used in the AQMD jurisdiction and as such, there are specific limits that apply as shown in the Table of Standards of the attached rule.

There has been some confusion in the coatings industry on the definition of a metallic pigmented coating. Rule 1113 defines a metallic pigmented coating as “coatings, excluding roof coatings, containing at least 0.4 pounds per gallon (48 grams/liter) of coating, as applied, of elemental metallic pigment (excluding zinc), mica particles or any combination of metallic pigments and mica particles.” However, the definition for a metallic pigmented coating under the National AIM Rule does not include mica. Since a local air district rule cannot be less stringent than a federal regulation, in the case of metallic pigmented coatings, mica may not be used to meet the definition of a metallic pigmented coating, since that is not allowed under the definition in the National AIM Rule. On another related note, a local air district may be more restrictive than a Federal or State regulation, and as such, the AQMD will continue to exclude zinc from the metallic pigmented coating definition. The bottom line is that no manufacturer or distributor shall be allowed to make or distribute a metallic pigmented coating for use within the AQMD having an allowable maximum VOC limit of 500 g/L, unless it meets the federal definition excluding zinc. This means that mica shall not be considered as part of the metallic content when attempting to meet the 0.4 pounds per gallon as stating in the Rule 1113 definition for metallic pigmented coatings.
This letter serves as notification that any coating manufactured after January 31, 2007 must contain at least 0.4 pounds of elemental metal per gallon of coating in order to meet the definition of a metallic pigmented coating; if not, it will be deemed non-compliant and subject to the issuance of a Notice of Violation.

If you have any questions please contact David De Boer, Senior Staff Specialist, at (909) 396-2329.

Sincerely,

[Signature]

Laki T. Tisopoulos, Ph.D., P.E.
Assistant Deputy Executive Officer

Attachments: FACTSHEET
South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 · www.aqmd.gov

Metallic Pigmented Coating Fact Sheet:

South Coast Air Quality Management District (SCAQMD)
Rule 1113 Architectural Coatings Section (b) (32):

METALLIC PIGMENTED COATINGS are coatings, excluding roof coatings, containing at least 0.4 pounds per gallon (48 grams/liter) of coating, as applied, of elemental metallic pigment (excluding zinc), mica particles or any combination of metallic pigments and mica particles.

California Air Resources Board (ARB)
Suggested Control Measure (SCM) for Architectural Coatings Section 2.31:

Metallic Pigmented Coating: A coating containing at least 48 grams of elemental metallic pigment per liter of coating as applied (0.4 pounds per gallon), when tested in accordance with SCAQMD Method 318-95, incorporated by reference in subsection 6.5.4.

Environmental Protection Agency (EPA)
National Volatile Organic Compound Emission Standards for Architectural Coatings
40 CFR Part 59 Subpart D:

Metallic pigmented coating means a nonbituminous coating containing at least 0.048 kilogram of metallic pigment per liter of coating (0.4 pound per gallon) including, but not limited to, zinc pigment.

Since a local air district may not be less restrictive than the Federal regulation, the SCAQMD will enforce Metallic Pigmented Coatings as:

METALLIC PIGMENTED COATINGS are coatings, excluding roof coatings, containing at least 0.4 pounds per gallon (48 grams/liter) of coating, as applied, of elemental metallic pigment (excluding zinc).
ATTACHMENT G

CEQA NOTICE OF EXEMPTION
SUBJECT: NOTICE OF EXEMPTION FROM THE CALIFORNIA ENVIRONMENTAL QUALITY ACT

PROJECT TITLE: PROPOSED AMENDED RULE 1113 – ARCHITECTURAL COATINGS

Pursuant to the California Environmental Quality Act (CEQA) Guidelines, the South Coast Air Quality Management District (SCAQMD) is the Lead Agency and will prepare a Notice of Exemption for the project identified above.

The SCAQMD has reviewed the proposed project mentioned above pursuant to CEQA Guidelines §15002 (k)(1). Since it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the project is exempt from the requirements of CEQA pursuant to state CEQA Guidelines §15061(b)(3). A Notice of Exemption has been prepared pursuant to CEQA Guidelines §15062 - Notice of Exemption. The Notice of Exemption will be filed with the county clerks of Los Angeles, Orange, Riverside and San Bernardino counties immediately following the adoption of the proposed project.

Any questions regarding this Notice of Exemption should be sent to Michael Krause (c/o Planning, Rule Development & Area Sources) at the above address. Mr. Krause can also be reached at (909) 396-2706.

Date: June 1, 2007

Signature: _____________________
Steve Smith, Ph.D.
Program Supervisor
Planning, Rule Development & Area Sources

Reference: California Code of Regulations, Title 14
NOTICE OF EXEMPTION

To: County Clerks  
   Riverside, Los Angeles,  
   Orange, San Bernardino  
From: South Coast Air Quality Management District  
       21865 Copley Drive  
       Diamond Bar, CA 91765

Project Title:  
Proposed Amended Rule 1113 – Architectural Coatings

Project Location:  
South Coast Air Quality Management District (SCAQMD) area of jurisdiction consisting of the four-county South Coast Air Basin (Orange County and the non-desert portions of Los Angeles, Riverside and San Bernardino counties), and the Riverside County portions of the Salton Sea Air Basin and the Mojave Desert Air Basin.

Description of Nature, Purpose, and Beneficiaries of Project:  
Proposed amended Rule (PAR) 1113 will clarify the existing definition of metallic pigmented coatings to remove reference to mica to be consistent with the federal architectural coating rule. In addition, PAR 1113 will update the test method used to determine the weight percent of elemental metal in metallic coatings to reflect current practice and delete obsolete, outdated language.

Public Agency Approving Project:  
South Coast Air Quality Management District

Agency Carrying Out Project:  
South Coast Air Quality Management District

Exempt Status:  
General Concepts [CEQA Guidelines §15002 (k)(1)]; and  
General Rule Exemption [CEQA Guidelines §15061 (b)(3)];

Reasons why project is exempt:  
The SCAQMD has reviewed the proposed project pursuant to State CEQA Guidelines §15002 (k)(1). Since the proposed amendments to Rule 1113 only address clarity and enforceability and it can be seen with certainty that there is no possibility that the activity in question may have a significant effect on the environment, the project is exempt from the requirements of CEQA pursuant to state CEQA Guidelines §15061(b)(3) - Review for Exemption.

Certification Date:  
SCAQMD Governing Board Hearing: July 13, 2007, 9:00 a.m.; SCAQMD Headquarters

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<th>CEQA Contact Person:</th>
<th>Phone Number:</th>
<th>Fax Number:</th>
<th>Email:</th>
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<tbody>
<tr>
<td>Mr. Michael Krause</td>
<td>(909) 396-2706</td>
<td>(909) 396-3324</td>
<td><a href="mailto:mkrause@aqmd.gov">mkrause@aqmd.gov</a></td>
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<tr>
<td>Mr. Dan Russell</td>
<td>(909) 396-2333</td>
<td>(909) 396-3324</td>
<td><a href="mailto:drussell@aqmd.gov">drussell@aqmd.gov</a></td>
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Date Received for Filing ________________________________  
Signature ________________________________  
Signed upon certification  
Steve Smith, Ph.D.  
Program Supervisor  
Planning, Rule Development and Area Sources