






**RULE 1113 -
ARCHITECTURAL AND
INDUSTRIAL MAINTENANCE
COATINGS**

APPLICABILITY

-  Modify to apply to all sales in District, not just sales for use in District
-  Include roadways, racetracks and bridges

Definitions

-  **Eliminate**
 - Clear Brushing Lacquers; Quick Dry Enamels; Quick Dry Primers, Sealers, Undercoaters
-  **Add**
 - Concrete Surface Retarders; Driveway Sealers; Form Release Compounds; Gonioapparent; Manufacturer; Non-Sacrificial Anti-Graffiti Coatings; Pearlescent; Prominently Displayed; and Sacrificial Anti-Graffiti Coatings
-  **Amend**
 - Architectural Coatings; Fire Proofing Exterior Coatings; Floor Coatings; Japans/Faux Finishing Coatings; Swimming Pool Coatings; Varnishes; Waterproofing Concrete/Masonry Sealers

New Definitions

CONCRETE SURFACE RETARDERS are coatings containing a mixture of retarding ingredients such as extender pigments, primary pigments, resin, and solvent that interact chemically with the cement to prevent hardening on the surface where the retarder is applied, allowing the retarded mix of cement and sand at the surface to be washed away to create an exposed aggregate finish.

New Definitions

DRIVEWAY SEALERS are coatings labeled and formulated for application to worn asphalt driveway surfaces to perform one or more of the following functions:

- Fill cracks;
- Seal the surface to provide protection; or
- Restore or preserve the appearance.

New Definitions

FAUX FINISHING COATINGS are coatings labeled and formulated to meet one or more of the following criteria:

- A decorative or textured coating used to create artistic effects, including, but not limited to: dirt, suede, or old age;
- A decorative coating used to create a gonioapparent appearance, such as a metallic, iridescent, or pearlescent appearance, that contains at least 48 grams of pearlescent mica pigment or other iridescent pigment per liter of coating as applied (at least 0.4 pounds per gallon); or
- A decorative coating used to create a gonioapparent, metallic appearance that contains less than 48 grams of elemental metallic pigment per liter of coating as applied (less than 0.4 pounds per gallon).

New Definitions

PEARLESCENT means exhibiting various colors depending on the angles of illumination and viewing, as observed in mother-of-pearl.

GONIOAPPARENT means a change in appearance with a change in the angle of illumination or the angle of view, as defined according to ASTM E 284.

New Definitions

FORM RELEASE COMPOUNDS are coatings designed for or applied to a concrete form to prevent the freshly poured concrete from bonding to the form. The form may consist of metal, wood, or some material other than concrete.

New Definitions

MANUFACTURER is any person, company, firm, or establishment who imports, manufactures, blends, assembles, produces, packages, repackages, or re-labels an architectural coating. The manufacturers listed on the product's label shall be primarily responsible for compliance with applicable provisions of this rule. If the label lists two or more manufacturers, they may mutually designate in writing a manufacturer responsible for compliance with this rule. That writing shall be filed with the Executive Officer.

New Definitions

NON-SACRIFICIAL ANTI-GRAFFITI COATINGS are clear or opaque high performance coatings formulated and recommended for application to interior and exterior walls, doors, partitions, fences, signs, and murals to deter adhesion of graffiti and to resist repeated scrubbing and exposure to harsh solvents, cleansers, or scouring agents used to remove graffiti.

New Definitions

SACRIFICIAL ANTI-GRAFFITI COATINGS are non-binding, clear coatings which are formulated and recommended for application to interior and exterior walls, doors, partitions, fences, signs, and murals that allow for the removal of graffiti primarily by power washing. Sacrificial anti-graffiti coatings are designed to be re-applied after the graffiti has been removed for continued protection.

New/Revised Definitions

PROMINENTLY DISPLAYED means listing text in a font size of at least 12 points and in a color that sufficiently contrasts the background color such that the text can be easily discerned.

VARNISHES are clear or pigmented wood finishes formulated with various resins to dry by chemical reaction.

Proposed New Coating Categories

Category	Current Limit (g/L)	Limit Under Consideration (g/L)	Current Category
Anti-Graffiti			
Sacrificial	100	50	IM
Non-Sacrificial	100	100	IM
Concrete Surface Retarders	250	100	Default
Driveway Sealers	250	50	Default
Form Release	250	100	Default
Japans/Glazes	350	350	Japans/Faux


Other Categories Under Review

Volume and SWA VOC based on Rule 314 Data from the 2008 Calendar Year

Category	Current Limit (g/L)	SWA VOC (g/L)*	Sales Volume (gallons)*
Bond Breakers	350	127	16,500
Concrete Curing Compounds	100	48	47,605
Default	250	44	136,563
Faux Finishing Coatings	350	174	94,130
Graphic Arts	500	156	12,464
Metallic Pigmented Coatings	500	177	11,950
Multi-Color Coatings	350	41	108,262
Primers, Sealers, Undercoaters	100	52	3,962,037
Roof Primers - Bituminous	350	139	23,403

* Excluding coatings sold under ACO, SCE, or Sell Through

COLORANTS

 Include colorants added at the point of sale in the VOC calculation

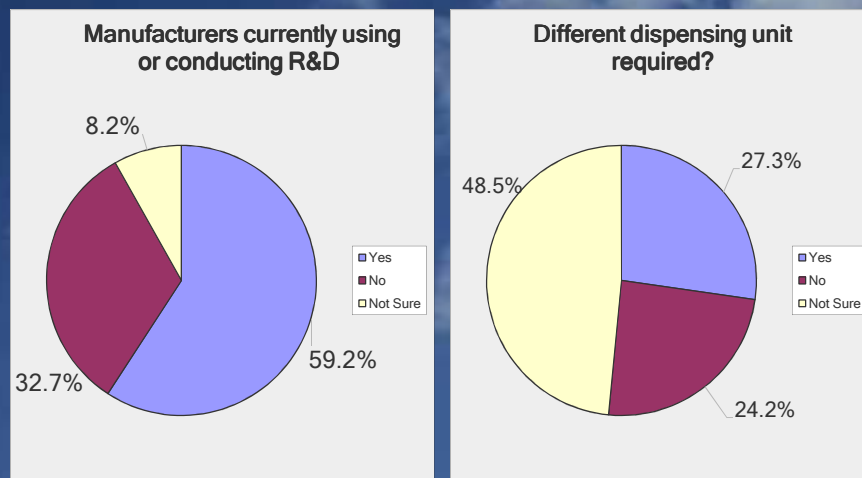
 May result in significant VOC reduction

COLORANTS

Options under consideration:

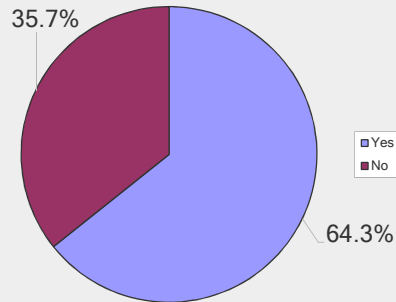
1. Include colorant in VOC calculation
2. Separate table of standard for Colorants within Rule 1113 - possible VOC content difference for trade sales vs. IM
3. Separate Rule for Colorants

RESULTS FROM SURVEY Near-Zero VOC Colorants

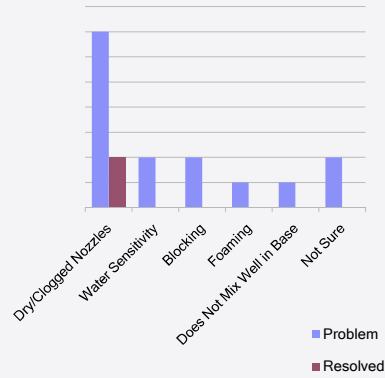


RESULTS FROM SURVEY Near-Zero VOC Colorants

Manufacturers that have experienced problems

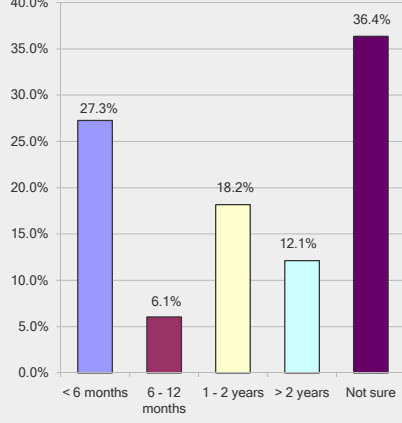


Reported Issues

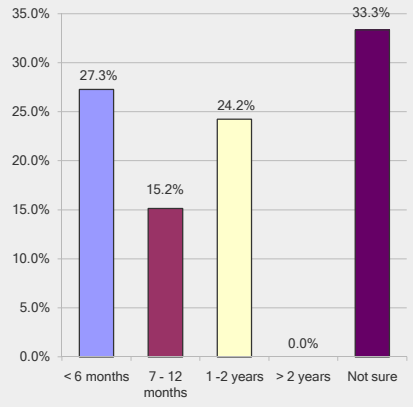


RESULTS FROM SURVEY Near-Zero VOC Colorants




Timeframe to complete the R&D



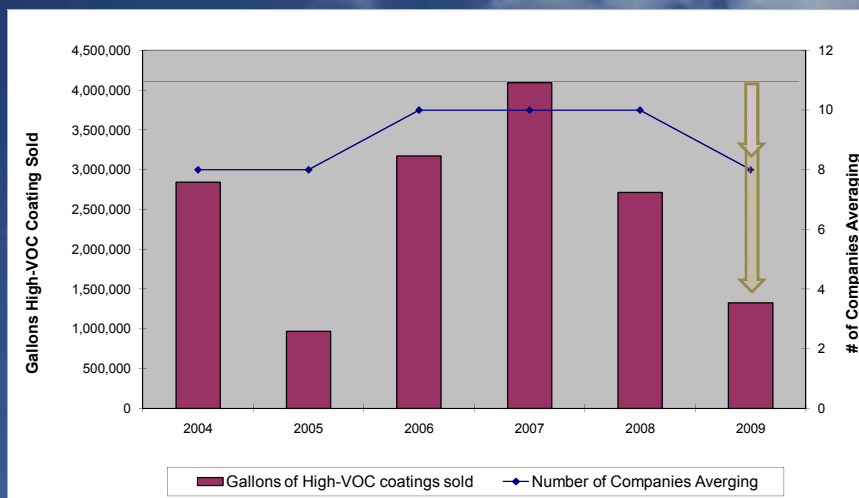
Timeframe to implement and train paint retail facilities






AVERAGING COMPLIANCE OPTION (ACO)

-  Phase out the ACO
-  ACO adopted for flexibility and easier transition to lower-VOC limits
-  Cumulative Volume of high VOC Coatings equates to 2.8 tpd






Trends in ACO Plans



SMALL CONTAINER EXEMPTION (SCE)




-  Phase out the SCE
-  SCE adopted for flexibility during the transition to lower-VOC limits, intended for small niche categories
-  Reported volume equates to 1.6 tpd

Small Container Exemption



-  Adopted for transitional period
-  All coating categories have available technology that meet the VOC limit
-  Used in 18 of the 41 categories*
-  1% of coating sales under SCE*
-  Leads to increased packaging disposal

* Values exclude Clear Wood Finishes




Small Container Exemption

-  Lower priced high-VOC coatings – unfair marketing advantage
-  Exemption leads to potential rule circumvention
 - Compliant gallon container sold adjacent to high-VOC small container
-  Phase out SCE by carving out categories where a higher VOC limit is justified by performance studies

HEAT REFLECTIVE COATINGS

-  Include a requirement that roof and exterior wall coatings must be heat reflective
-  This requirement would reduce the energy required to cool buildings resulting in lower emissions and improved air quality

VOC TEST METHODOLOGY

-  EPA Method 24/AQMD Method 304 loses precision as VOC of coating approaches zero
-  ASTM adopted GC method based on work performed at Cal Poly SLO sponsored by CARB
-  The AQMD laboratory and industry has switched to a direct gas chromatographic (GC) measurement

VOC TEST METHODOLOGY

Include the following VOC test methods:

- AQMD Method 313-91
- ASTM D 6886

RULE 314 - FEES FOR ARCHITECTURAL COATINGS

NEW DEFINITIONS




DISTRIBUTOR is any company or person that stores, delivers, or offers for sale architectural coatings.

TOLL MANUFACTURER is an architectural coatings manufacturer who produces coatings for a private labeler.



REVISED DEFINITIONS

MANUFACTURER is any person, company, firm, or establishment who imports, manufactures, blends, assembles, produces, packages, repackages, or re-labels an architectural coating. The manufacturers listed on the product's label shall be primarily responsible for compliance with applicable provisions of this rule. If the label lists two or more manufacturers, they may mutually designate in writing a manufacturer responsible for compliance with this rule. That writing shall be filed with the Executive Officer.

New Requirements Under Consideration

-  Manufacturers to list the product codes and product names for coatings that are grouped
-  Clarify that the VOC of coating for multi-component coatings should be reported as applied
-  Only require changes to the distributors list to be reported annually

Additional Exemptions Under Consideration

-  Include an exemption for coatings that are supplied in powder form, that are only mixed with water prior to use, i.e. stucco and other cementitious products
-  Exempt coatings manufacturers that sell less than 100 gallons annually

QUESTIONS AND
COMMENTS

Contacts



Rule Amendment

Heather Farr, Air Quality Specialist

909-396-3672

hfarr@aqmd.gov



VOC Test Methodology

Joan Niertit, Principle Chemist

909-396-3174

jniertit@aqmd.gov