

Architectural and Industrial Maintenance Coatings

Table I
Identification of Performance Standards
Source Category: Architectural and Industrial Maintenance Coatings

Regulated Component	Pollutant	Rule/Measure/Date										
		U.S. EPA, National VOC Standards for Architectural Coatings, 63 FR 176: 48848, 9/11/98 (rule effective date 9/13/99)			ARB-CAPCOA Suggested Control Measure for Architectural Coatings, adopted 1977, last amended May 1989			SCAQMD Rule 1113, Architectural Coatings, adopted 9/77, last amended 11/96				
		Performance Standard										
Antenna	VOC	X	530 g/l									
Anti-Fouling	VOC	X	450 g/l									
Anti-Graffiti	VOC		600 g/l	X	340 g/l							
Bituminous & Mastics	VOC	X	500 g/l									
Bond Breakers	VOC		600 g/l	X	350 g/l	X	350 g/l					
Calcimine Recoaters	VOC	X	475 g/l									
Chalkboard Resurfacers	VOC	X	450 g/l									
Concrete Curing Compounds	VOC	X	350 g/l	X	350 g/l	X	350 g/l					
Concrete Curing and Sealing Compounds	VOC	X	700 g/l									
Concrete Protective	VOC	X	400 g/l									
Concrete Surface Retarders	VOC	X	780 g/l									
Conversion Varnish	VOC	X	725 g/l									

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		Performance Standard										
Dry Fog	VOC	X	400 g/l	X	400 g/l	X	400 g/l					
Extreme High Durability	VOC	X	800 g/l									
Faux Finishing/Glazing (Japans)	VOC	X	700 g/l			X	700 g/l (1999-350 g/l)					
Fire Proofing Exterior	VOC					X	450 g/l (1999-350 g/l)					
Fire Retardant-Clear	VOC			X	650 g/l	X	650 g/l					
Fire Retardant-Pigmented	VOC			X	350 g/l	X	350 g/l					
Fire Retardant/Resistive-Clear	VOC	X	850 g/l									
Fire Retardant/Resistive-Opaque	VOC	X	450 g/l									
Flat-Interior/Exterior	VOC		250 g/l		250 g/l	X	250 g/l (2001-100 g/l) (2008-50 g/l)					

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Performance Standard														
Floor	VOC	X	400 g/l											
Flow	VOC	X	650 g/l											
Form Release Compounds	VOC		450 g/l	X	250 g/l									
Graphic Arts (sign paints)	VOC	X	500 g/l	X	500 g/l	X	500 g/l							
Heat Reactive	VOC	X	420 g/l											
High Temperature	VOC		650 g/l	X	420 g/l									
Impacted Immersion	VOC	X	780 g/l											
Industrial Maintenance	VOC		450 g/l	X	340 g/l									

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Performance Standard							
Industrial Maintenance Primers, Topcoats and Materials (Alkyds, Catalyzed Epoxy, Bituminous, Inorganic Polymers, Vinyl Chloride Polymers, Chlorinated Rubber, Acrylic Polymers, Urethane Polymers, Silicones, Unique Vehicles)	VOC				X	420 g/l	
Lacquer	VOC			680 g/l	X	550 g/l (2005-275 g/l)	
Lacquer (including lacquer sanding sealers)	VOC	X	680 g/l				
Lacquer-Pigmented	VOC				X	550 g/l (2005-275 g/l)	
Magnesite Cement	VOC		600 g/l	X	450 g/l	600 g/l (1999-450 g/l)	

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		Performance Standard										
Mastic Texture	VOC	X	300 g/l	X	300 g/l	X	300 g/l					
Metallic Pigmented	VOC	X	500 g/l	X	500 g/l	X	500 g/l					
Multi-Color	VOC		580 g/l		420 g/l	X	250 g/l					
Nonferrous Ornamental Lacquers & Surface Protectants	VOC	X	870 g/l									
Non-Flat Interior/Exterior	VOC		380 g/l	X	250 g/l	X	250 g/l					
Nuclear	VOC	X	450 g/l									
Pre-Treatment Wash Primer	VOC		780 g/l	X	420 g/l		780 g/l					
Primers & Undercoaters	VOC	X	350 g/l									
Primers, Sealers & Undercoaters	VOC			X	350 g/l	X	350 g/l					
Quick Dry Enamels	VOC		450 g/l			X	400 g/l					

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Performance Standard									
Quick Dry Primers, Sealers and Undercoaters	VOC		450 g/l			X	350 g/l		
Repair & Maintenance Thermoplastic	VOC	X	650 g/l						
Roof	VOC	X	250 g/l		300 g/l		300 g/l		
Rust Preventative	VOC	X	400 g/l						
Sanding Sealer (lacquer)	VOC		680 g/l	X	350 g/l	X	350 g/l		
Sanding Sealer (non-lacquer)	VOC	X	550 g/l						
Sealers (including clear wood sealers)	VOC	X	400 g/l						
Shellacs-Clear	VOC	X	730 g/l	X	730 g/l	X	730 g/l		
Shellacs-Opaque	VOC	X	550 g/l						

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		Performance Standard																		
Shellacs-Pigmented	VOC			X	550 g/l			X	550 g/l											
Stains-Clear & Semitransparent	VOC		550 g/l					X	350 g/l											
Stains-Semitransparent	VOC			X	350 g/l															
Stains-Opaque	VOC	X	350 g/l	X	350 g/l			X	350 g/l											
Stains-Low Solids	VOC	X	120 g/l					X	120 g/l											
Stain Controllers	VOC	X	720 g/l																	
Swimming Pool-General	VOC		600 g/l	X	340 g/l			X	340 g/l											
Swimming Pool-Repair & Maintenance	VOC			X	340 g/l				650 g/l											
Thermoplastic Rubber & Mastics	VOC	X	550 g/l																	
Traffic	VOC	X	150 g/l		250 g/l			X	150 g/l											
Varnishes	VOC		450 g/l	X	350 g/l			X	350 g/l											
Water Proofing Sealers	VOC		600 g/l	X	400 g/l			X	400 g/l											

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		Performance Standard							
Wood Preservatives-Below Ground	VOC		550 g/l	X	350 g/l	X	350 g/l		
Wood Preservatives-Clear & Semitransparent	VOC		550 g/l	X	350 g/l	X	350 g/l		
Wood Preservatives-Low Solids	VOC	X	120 g/l			X	120 g/l		
Wood Preservatives-Opaque	VOC	X	350 g/l	X	350 g/l	X	350 g/l		
Zone Marking Compounds	VOC	X	450 g/l						

Notes:

1. Eighteen of California's 35 air pollution control districts have adopted architectural coating rules. In general, these districts are consistent with the 1989 ARB-CAPCOA Suggested Control Measure.
2. Districts that have adopted architectural coating rules are as follows: Antelope Valley APCD, Bay Area AQMD, Butte County AQMD, Colusa County APCD, El Dorado County APCD, Feather River AQMD, Imperial County APCD, Kern County APCD, Mojave Desert AQMD, Monterey Bay Unified APCD, Placer County APCD, Sacramento Metro AQMD, San Diego County APCD, Santa Barbara County APCD, San Joaquin Valley Unified APCD, South Coast AQMD, and Ventura County APCD. Yolo-Solano AQMD's rule was adopted by the ARB in 1979 and contains some outdated provisions.
3. Overall the SCAQMD Rule 1113 represents the most stringent rule when compared to the 1989 ARB-CAPCOA SCM, other air districts, and the U.S. EPA national rule.
4. Both the SCAQMD Rule 1113 and ARB-CAPCOA SCM have fallback provisions which set a VOC content limit at 250 grams per liter if a coating does not fall into any of the categories identified in the above worksheet. The U.S. EPA rule contains a provision that if none of the specific category definitions applies to a coating, it falls into the flat or non-flat category, depending on the gloss level.

Table II
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Rule/Measure	Rule/Measure				
	Rule/Measure	U.S. EPA National VOC Rule for Architectural Coatings, 63 FR 176:48848, 9/11/98 (rule effective date 9/13/99)	ARB-CAPCOA Suggested Control Measure for Architectural Coatings, adopted 1977, last amended May 1989	SCAQMD Rule 1113, Architectural Coatings, adopted 9/77, last amended 11/96	
Exemptions	<p>Coatings manufactured for sales or distribution to architectural coating markets outside the U.S.</p> <p>Coatings manufactured prior to 9/13/99.</p> <p>Coatings sold in nonrefillable aerosol containers</p> <p>Coatings collected and redistributed at a paint exchange.</p> <p>Coatings sold in containers with a volume of one liter or less.</p> <p>Exceedance fee provision allows compliance by paying a fee in lieu of meeting the VOC content limits.</p> <p>Tonnage exemption allows manufacturers and importers to sell or distribute limited quantities of architectural</p>	<p>Architectural coatings manufactured for use outside of the District or for shipment to other manufacturers for repackaging.</p> <p>Architectural coatings supplied in and applied from containers of one liter or less capacity, and offered for sale in containers of such capacity prior to (date of rule adoption).</p> <p>Architectural coatings sold in non-refillable aerosol containers with capacities of one liter or less.</p> <p>Emulsion-type bituminous pavement sealers.</p>	<p>Architectural coatings in containers with capacities of one quart or less, provided the manufacturer submits an annual report which will allow the Executive Officer to monitor the use of this exemption.</p> <p>Architectural coatings sold in the District for shipment outside the District or for shipment to other manufacturers for repackaging.</p> <p>Emulsion type bituminous pavement sealers.</p> <p>Aerosol coating products.</p> <p>Use of stains and lacquers in all areas of the District at an elevation of 4,000 feet or more.</p>		

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	<p>coatings that do not comply with the VOC content limits based on the total mass of VOC contained in all exempt coatings.</p> <p>Recycled coatings option allows calculation of an adjusted-VOC content for coatings that contain a percentage of post-consumer (recycled) coating.</p>				

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Applicability	Coatings manufactured on or after 9/13/99 for sale or distribution in the U.S. (for coatings registered under the Federal Insecticide, Fungicide, and Rodenticide Act, the effective date is 3/13/00).	Any person who supplies, sells, offers for sale, applies, or solicits the application of any architectural coating, or who manufactures any architectural coating for use within the District.	Any person who supplies, sells, offers for sale, applies, solicits the application of, or manufactures for use in the District any architectural coating intended to be applied to stationary structures or their appurtenances, and to mobile homes, pavements or curbs.		
Comments	There are recordkeeping requirements associated with the exceedance fee provision, tonnage exemption, and recycled coatings option.				