

# Proposed Amended Rule 1113 – Architectural Coatings



Public Workshop  
January 20, 2011

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## Background



First Adopted on September 2, 1977



Last Amended July 13, 2007



2007 AQMP Inventory (annual average)

≈ 23 TPD – Reflects ~ 75% reduction



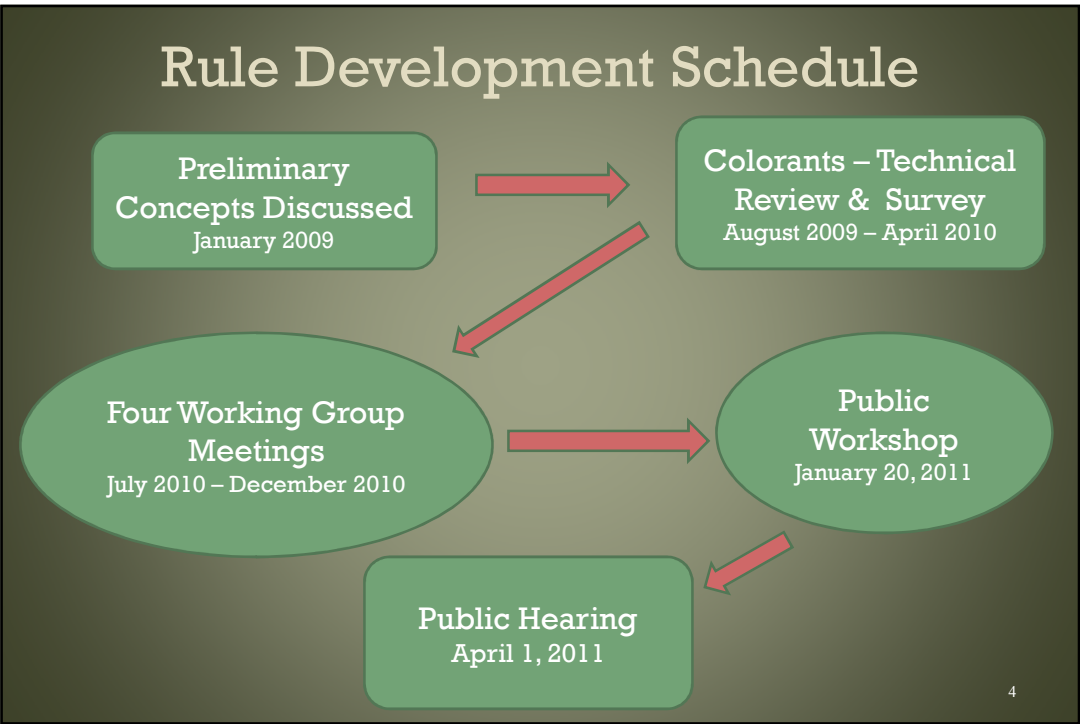
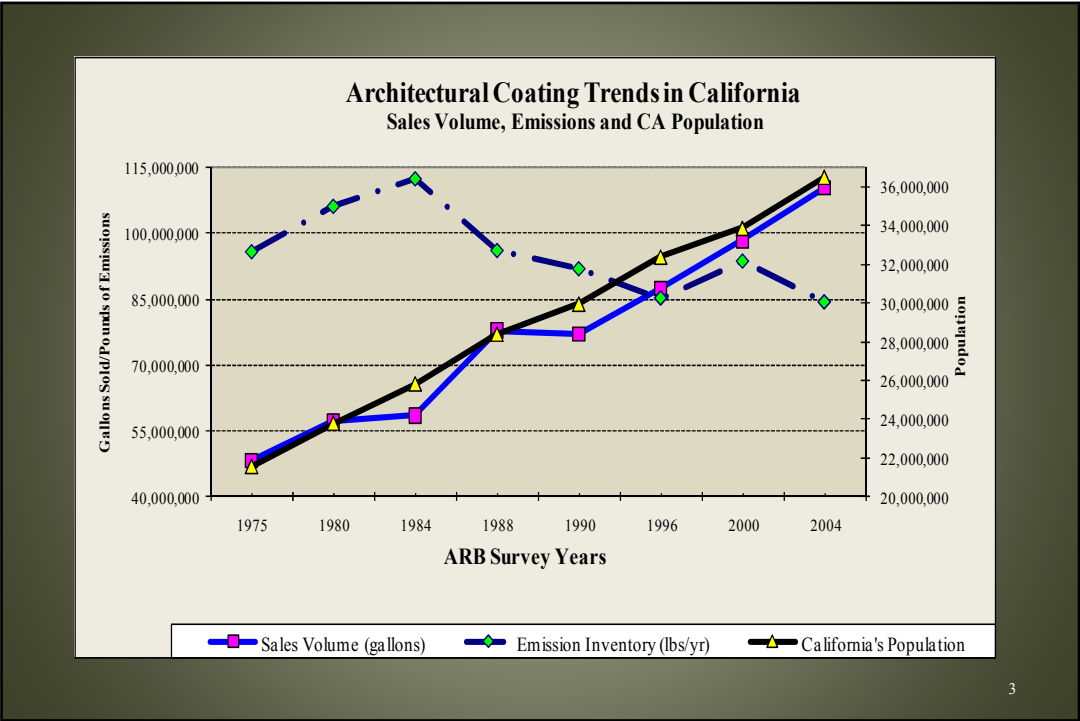
Rule 314 – Fees for Architectural  
Coatings



Non-compliance found – potential for  
large excess emissions






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# Proposed Amendments

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## Applicability

-  Remove phrase 'for use' from applicability
-  Include coatings marketed for sale
-  Prohibit non-compliant coatings from being stored at worksites

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## Definitions

Add 14 definitions; amend 9 definitions, and delete 3 definitions:

 Add – Concrete Surface Retarder; Driveway Sealer; Faux Finishing subcategories: Glaze, Decorative Coating, Trowel Applied Coating, and Clear Topcoat; Form Release Compound; Gonioapparent; Manufacturer; Non-Sacrificial Anti-Graffiti Coating; Pearlescent; Pigmented; Retail Outlet; Sacrificial Anti-Graffiti Coating; and Worksite.

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## Definitions (cont.)

 Amend – Architectural Coating, Coating, Faux Finishing Coating, Fire Proofing Coating, Floor Coating, Japans/Glazes, Sanding Sealers, Varnish, Volatile Organic Compound, and Waterproofing Concrete/Masonry Sealer.

 Delete – Clear Brushing Lacquer, Fire Retardant Coating, Non-Flat High Gloss.

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## Estimated VOC Reduction

Coating Category	Current VOC Limit	Proposed Limit Effective 01/01/13	Emission Reductions (pounds/day)		
			CARB Data	Rule 314 Data	
			2004	2008	2009
Concrete Surface Retarders	250	50	-	0.5	0
Dry Fog coatings	150	50	657	28	19
Fire Proofing Coatings	350	150	7	55	43
Form Release Compounds	250	100	589	48	60
Graphic Arts Coatings	500	150	-	11	6
Metallic Pigmented Coatings	500	150	1,547	23	19
Primers, Sealers, & Undercoaters	100	50	2,141	616	562
Specialty Primers	100	50	416	29	23
Total (pounds/day)			5,358	815	739
Total (tpd)			2.7	0.4	0.4

## Proposed New Coating Categories

Category	Current VOC Limit (g/L)	Proposed Limit Effective 01/01/13	Current Category
<b>Anti-Graffiti</b>			
<b>Sacrificial</b>	100	50	IM
<b>Non-Sacrificial</b>	100	100	IM
<b>Concrete Surface Retarders</b>	250	100	Default
<b>Driveway Sealers</b>	100	50	Waterproofing Sealer
<b>Form Release</b>	250	100	Default
<b>Faux Finishing Coatings</b>			Japans/Faux
<b>Glazes</b>	350	350	
<b>Decorative Coatings</b>	350	350	
<b>Japans</b>	350	350	
<b>Towel Applied Coatings</b>	350	50	
<b>Clear Topcoats</b>	350	50	
<b>Pigmented Varnish</b>	275	275	Clear Wood Finish

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# Colorants

Add VOC limit  
for Colorants  
Added at the  
Point of Sale

Effective Date  
January 1, 2014

COLORANT	Limit
Architectural Coatings	50
Waterborne IM	50
Solvent Based IM	600

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## Estimated Emissions Reductions from Colorants

	80% Gallons sold			Emissions tpd		
	2004*	2008	2009	2004	2008	2009
Flat & Non-Flat	25,608,202	18,755,636	17,718,674	2.8	2.0	1.9

\*Based on the 2005 CARB Survey of 2004 sales within California; assumes 45% of sales were in the AQMD.

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## Averaging Compliance Provision (ACO)

### Proposed changes to the ACO provision:



#### Reduce eligible categories - Remove:

- PSU
- Quick Dry PSU
- Quick Dry Enamels
- Roof Coatings
- Specialty Primers
- Waterproofing Sealers
- Bituminous Roof Primers
- Fire-Retardant Coatings
- High Gloss Nonflat
- Zinc-Rich IM Primers
- Waterproofing Concrete/Masonry Sealers



#### Lower Ceiling Limits to 2003 VOC Limits



#### Complete Phase Out by January 1, 2015

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## Averaging Compliance Provision (ACO)



### Emission Reductions from Limiting Categories:

Year	Total Gallons	Emissions (ppd)	Emissions (tpd)
2008	402,200	2,125	1.1
2009	361,744	1,956	1.0
Average:			1.0



### Emission Reduction from Phase-Out:

Year	Total Gallons	Emissions (ppd)	Emissions (tpd)
2008	1,798,929	2,096	1.0
2009	705,838	430	0.2
Average:			0.6

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## General Prohibition

Add a general prohibition against the use of Group II exempt solvents, other than cyclic, branched, or linear, completely methylated siloxanes (VMS), effective January 1, 2012 with a one year sell-through.

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## VOC Labeling

Include specific labeling requirements:

Effective January 1, 2014, the VOC shall be displayed on the coating container such that the required language is:

- Noticeable and in clear and legible English;
- Separated from other text; and
- Conspicuous, as compared with other words, statements, designs, or devices in the label as to render it likely to be read and understood by an ordinary individual under customary conditions of purchase or use.

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## Reporting Requirement



Remove reporting requirements that are now redundant with Rule 314

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## Test Method



Add ASTM E 284 Standard Terminology of Appearance



Remove Flame Spread Index

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## Small Container Exemption (SCE)

Proposed changes to the SCE provision:



Clarify Exempt only for VOC limits



Prohibit 'bundling' of the Coatings



Limit the Number of Categories to:

- Faux Finishing
- Floor Coatings
- Graphic Arts Coatings
- IM Coatings
- Metallic Pigmented
- Nonflat Coatings
- PSU
- Rust Preventative
- Specialty Primers
- Stains
- Waterproofing
- Concrete/Masonry Sealers

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## Exemptions



Include 'sale' in the 4,000' stain exemption

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## Rule Cleanup

Remove outdated rule language, including exemptions that have expired or requirements that have surpassed their effective date.

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## Estimated Emission Reductions

Rule Change	Emissions Reductions (tpd)			
	2012	2013	2014	2015
Remove Categories from ACO	1.0	0	0	0
Reduce VOC Limits	0	0.4	0	0
Limit VOC of Colorants	0	0	2.0	0
Phase out ACO	0	0	0	0.6
<b>Total Emission Reductions</b>	<b>4.0*</b>			

\* Based on average of 2008 and 2009 Rule 314 Data. The 2005 CARB survey volumes may be used to indicate the higher volume sales in 2004 for subsequent emission reduction calculations to align with the 2007 AQMP.



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## Additional Items Under Review

-  Niche Categories - Awaiting additional information
  - Stone Consolidants
  - Conversion Varnish
  - Conjugated Oil Varnish
-  Pigments for Heat Reflective Coatings
-  Possible inclusion into subsequent version of rule

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## Next Steps

-  Stationary Source Committee Meeting:  
January 21, 2011
-  Continue Meeting with Stakeholders
-  Public Hearing: April 1, 2011

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## Questions ?



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## Contacts



### Rule Amendment

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