



PAR1113 WORKING GROUP MEETING

December 3, 2014





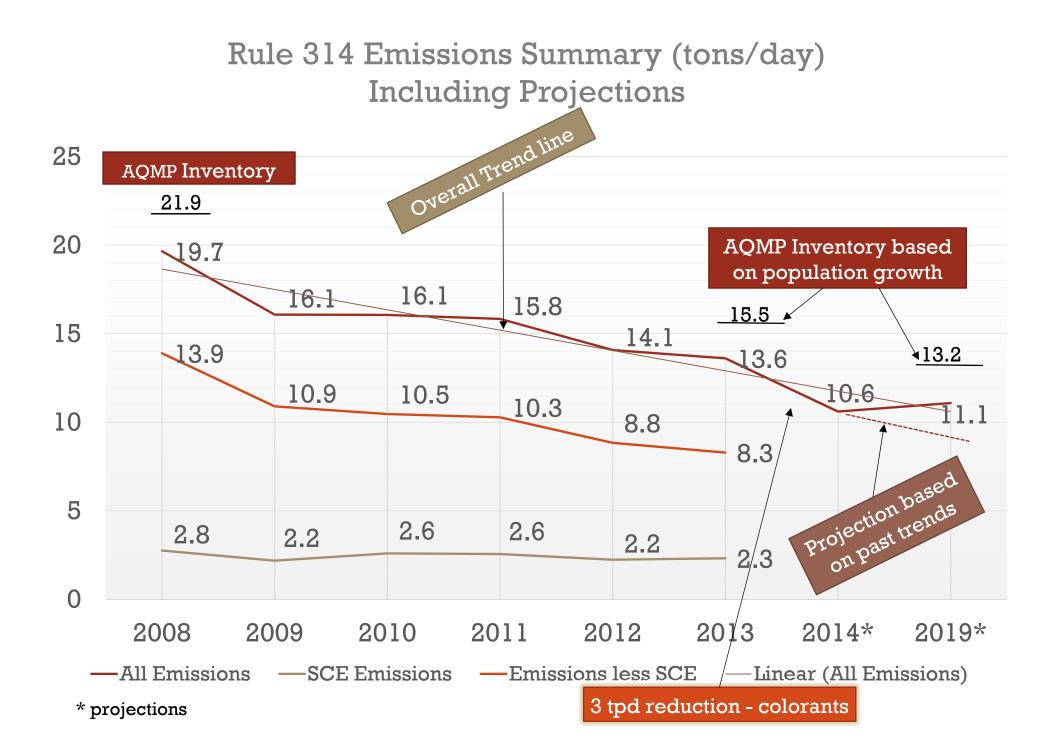
OVERVIEW

- 2012 AQMP CTS-01 includes 2-4 tpd VOC reductions
 - 25 g/L VOC limit flats, non-flats, PSU
 - Small Container Exemption
 - Transfer Efficiency
- Credit for Current Inventory









ISSUES UNDER REVIEW

- U.S. EPA Requirements
 - No Backsliding
- Data Integrity
- Path forward

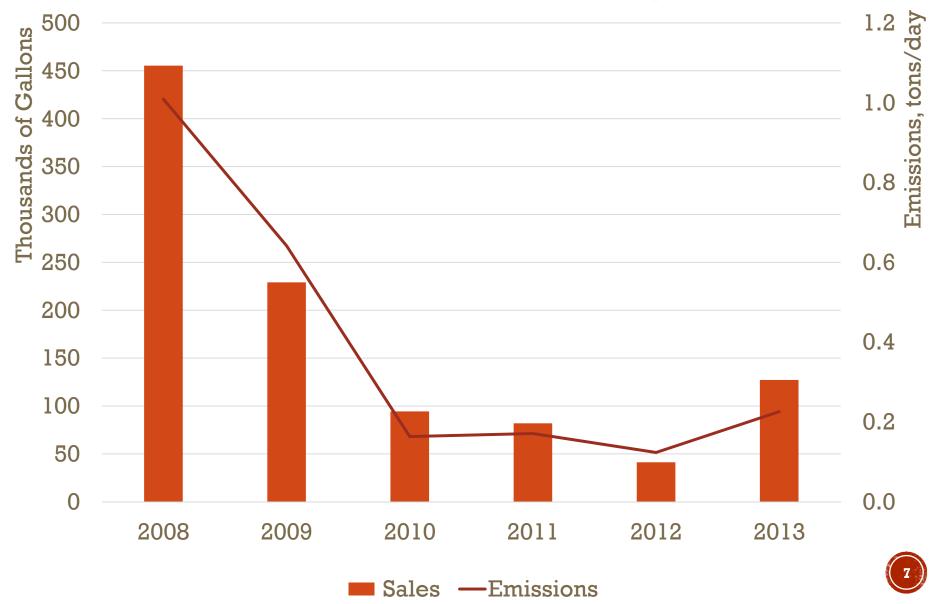




DATA INTEGRITY/COATING CHARACTERIZATION



Self-Reported *Potential* Non-Compliance > Liter Containers Only



EXAMPLE COATING CATEGORIZATION ISSUE

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".



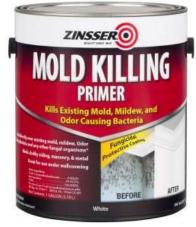
'SPECIALTY' PRIMERS

Reported as PSU VOC of Coating: 4 g/L



VOC of Coating:

lg/L





Reported as PSU VOC of Coating: 0 g/L



Reported as PSU VOC of Coating: 47 g/L



Reported as PSU VOC of Coating: 0 g/L



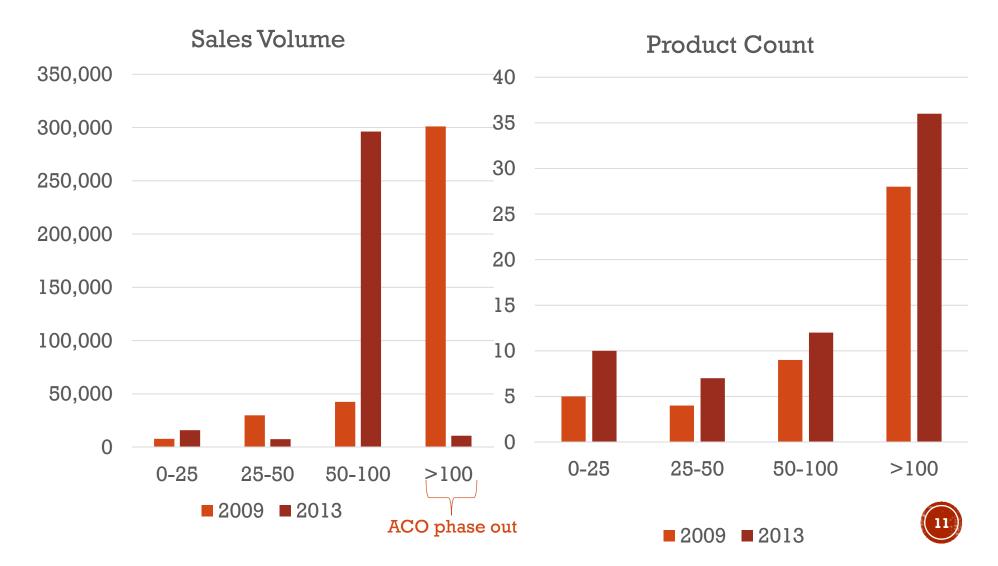
COATINGS REPORTED AS SPECIALTY PRIMERS BUT DO NOT MEET RULE 1113 DEFINITION

- Peelable basecoat
- Swedish Putty
- Quick Dry Primers
- Rust Preventative Primers





COATINGS REPORTED AS SPECIALTY PRIMERS ALL SALES







2013 SALES AND PRODUCT COUNT

Number of Products

	All Products				≤ 25 g/L			
	Total	Interior	Exterior	Dual	Total	Interior	Exterior	Dual
					573	440	74	59
Flat	2,268	1,165	691	412	(25%)	(38%)	(11%)	(14%)
					643	500	25	118
Non-Flat	3,243	1,661	796	786	(20%)	(30%)	(3%)	(15%)
					195	72	28	95
PSU*	838	306	167	365	(23%)	(24%)	(17%)	(26%)

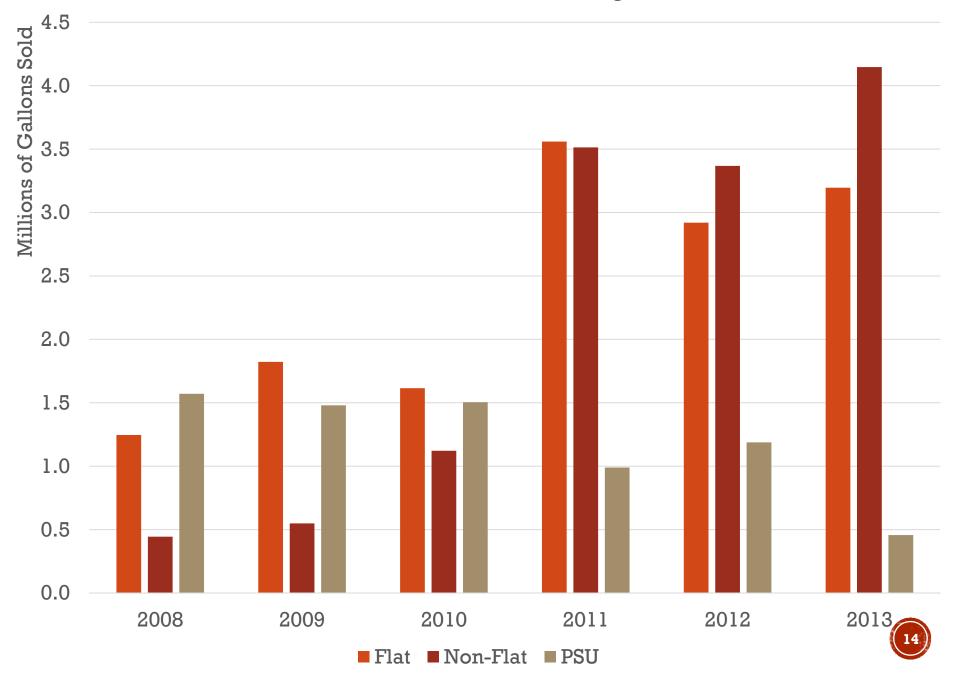
Sales Volumes (gallons)

	All Products			≤ 25 g/L				
	Total	Interior	Exterior	Dual	Total	Interior	Exterior	Dual
					3,195,692	2,958,800	112,410	124,483
Flat	11,411,136	6,145,642	4,551,943	713,552	(28%)	(48%)	(2%)	(17%)
					4,146,513	3,595,235	152,550	398,727
Non-Flat	12,182,540	8,234,218	2,063,236	1,885,086	(34%)	(44%)	(7%)	(21%)
					457,081	219,227	4,427	233,427
PSU*	3,271,648	1,615,106	222,537	1,434,005	(14%)	(14%)	(2%)	(16%)

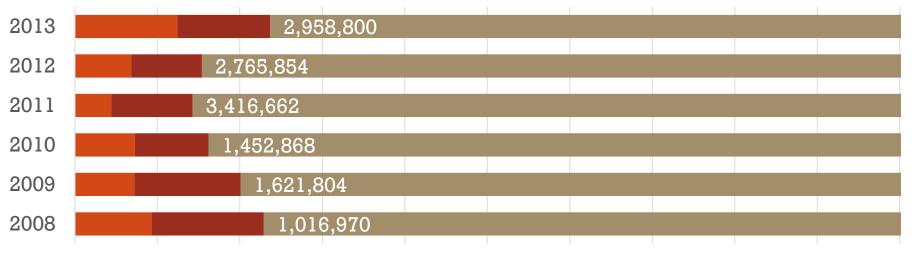


* Includes coatings reported as PSU and QD-PSU (not specialty primers)

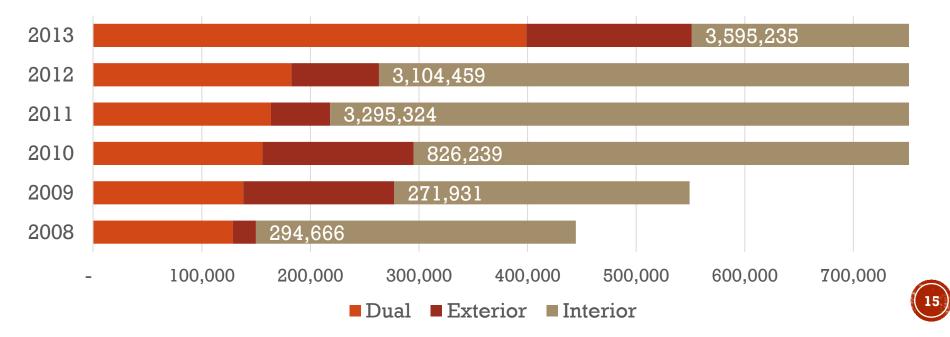
Flats, Non-Flat, & PSU $\leq 25 \text{ g/L}$



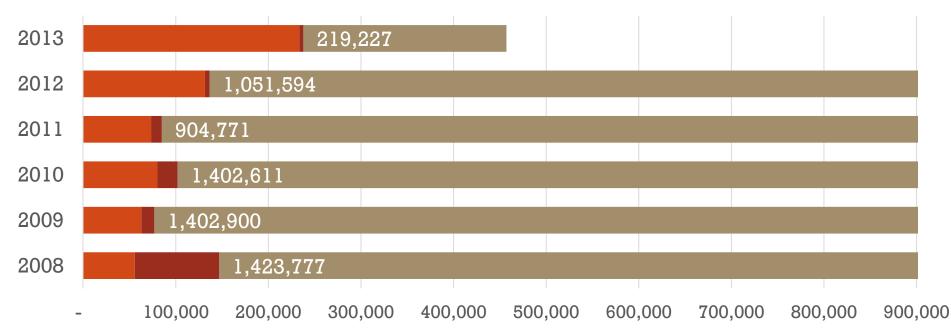
Flat Coatings $\leq 25 \text{ g/L}$



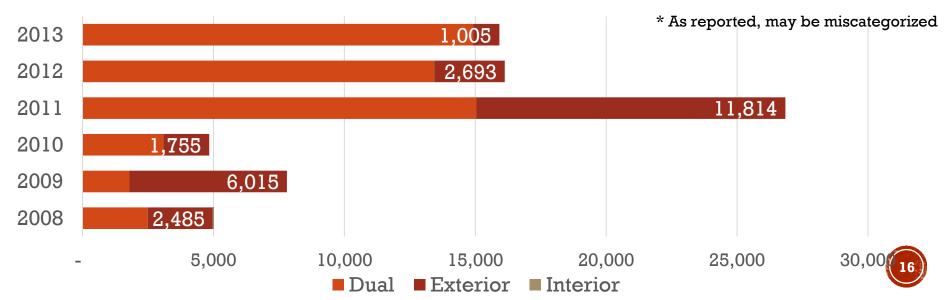
- 100,000 200,000 300,000 400,000 500,000 600,000 700,000 800,000 900,000 1,000,000 Non-Flat Coatings $\leq 25 \text{ g/L}$

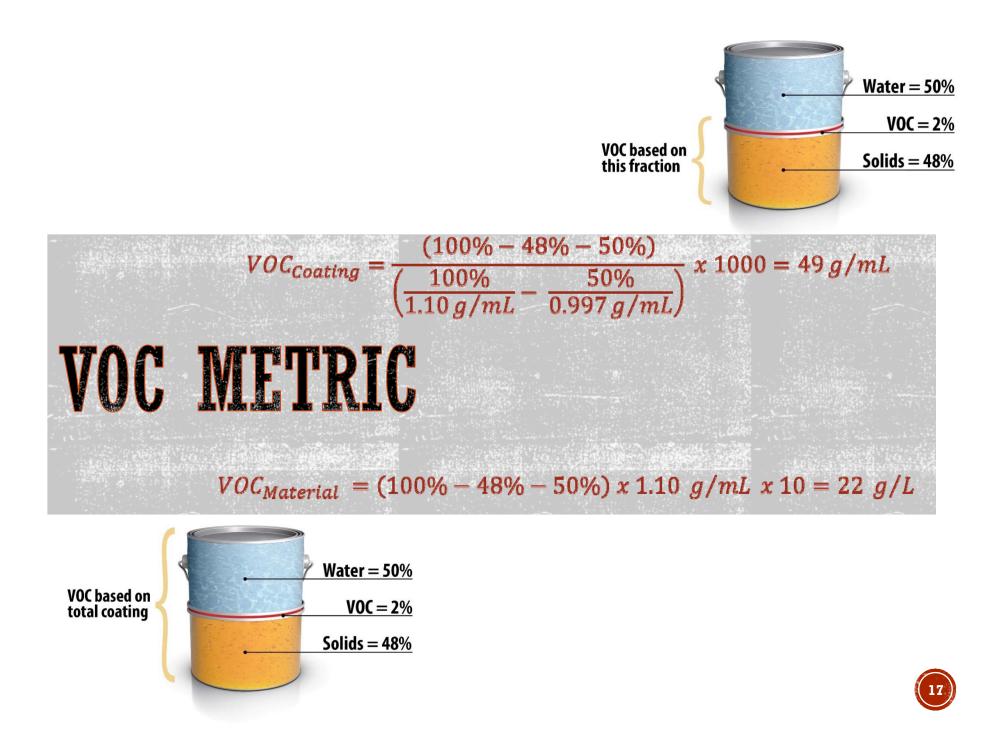


$PSU \le 25 \text{ g/L}$

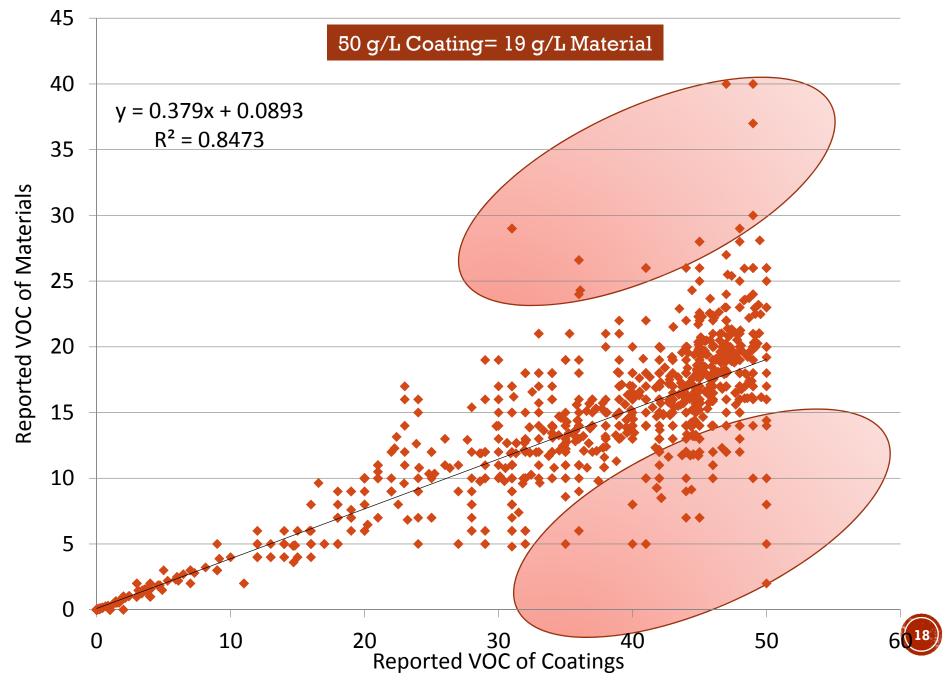


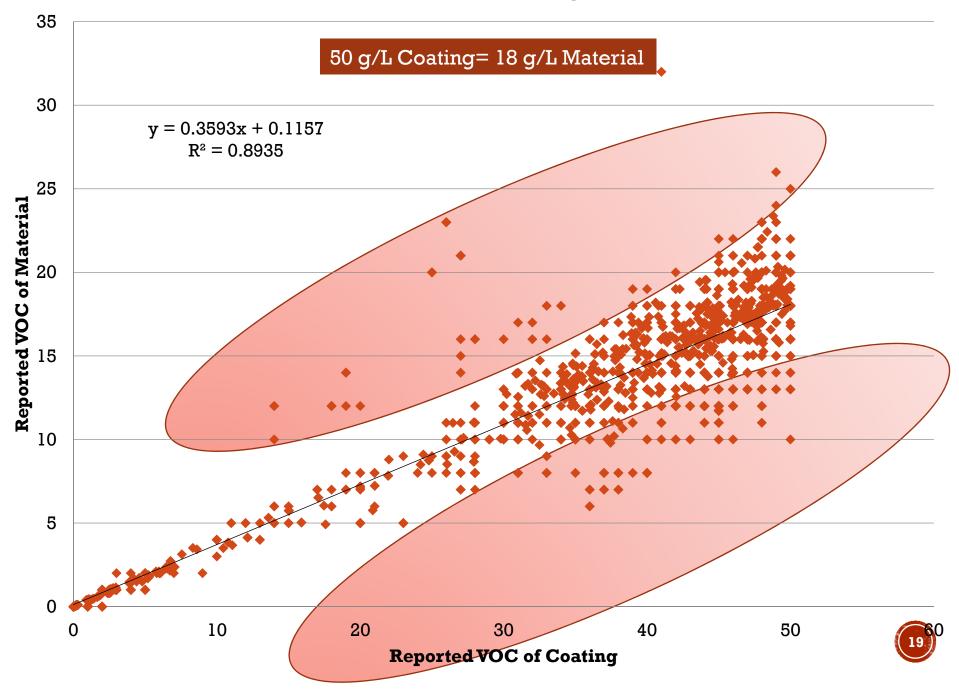
Specialty Primers* $\leq 25 \text{ g/L}$





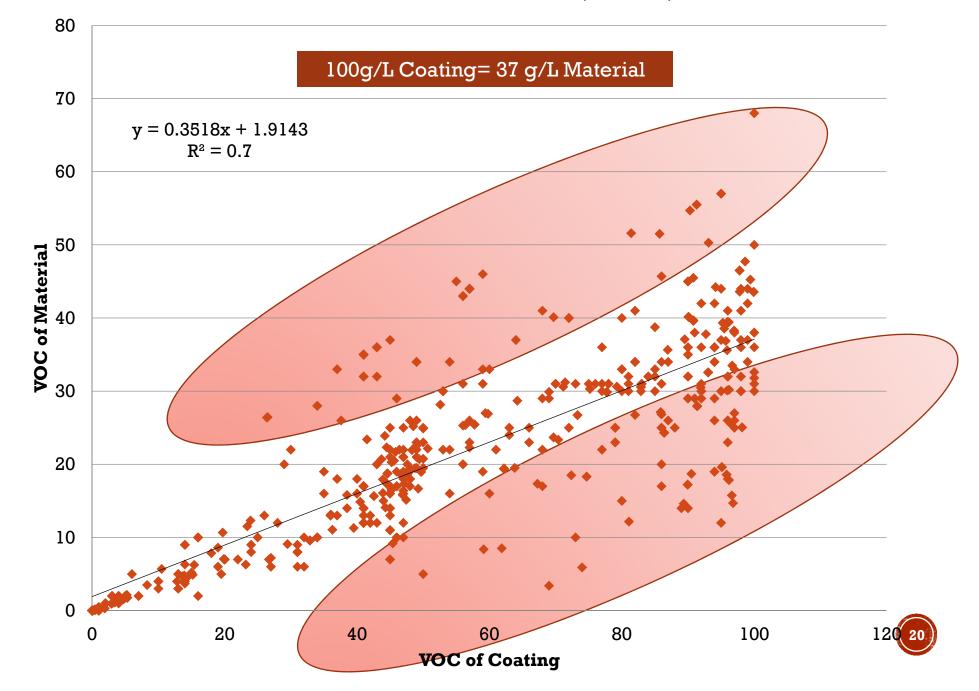
2013 Waterborne Flat Data (revised)





2013 Waterborne Non-Flat Coatings Data (revised)

2013 Waterborne PSU Data (revised)

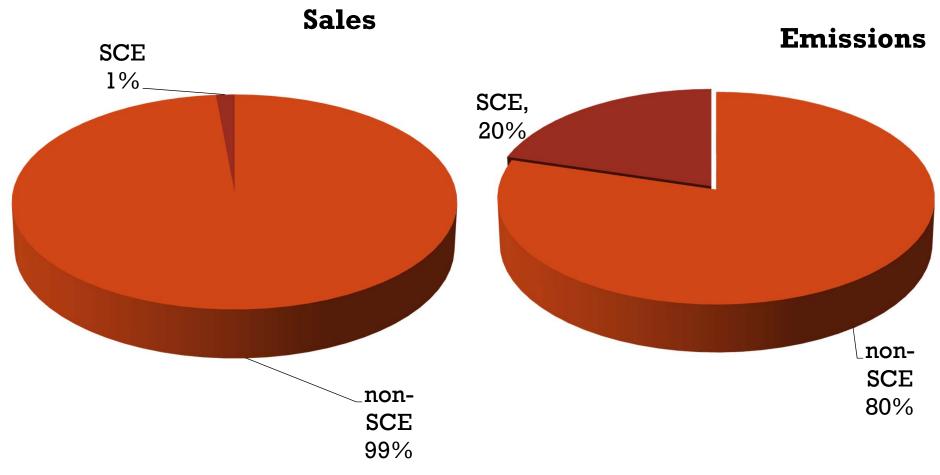




Coating sold in one-liter or smaller containers above the VOC limit



SCE VERSUS NON-SCE





ALL COATINGS REPORTED IN LITER OR SCE



SCE SALES - 2013

	Category	Sales (gal)	# of products	Emissions (tpd)	SWA VOC of Coating (g/L)	SWA VOC of Material (g/L) ¹
	RPC	157,714	279	0.74	408	-
	Non-Flat	105,976	323	0.25	252	-
	Stains, Interior ²	97,842	568	0.59	524	665
	PSU	69,228	71	0.36	453	708
C	Specialty Primers	10,324	27	0.04	319	-
	WPCMS ²	30,111	27	0.23	526	703



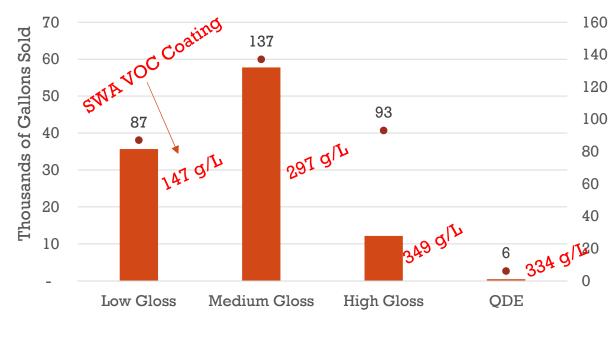
- 1. Only low solids coatings
- 2. Includes numerous low solids coatings sold over 120 g/LVOC of material limit





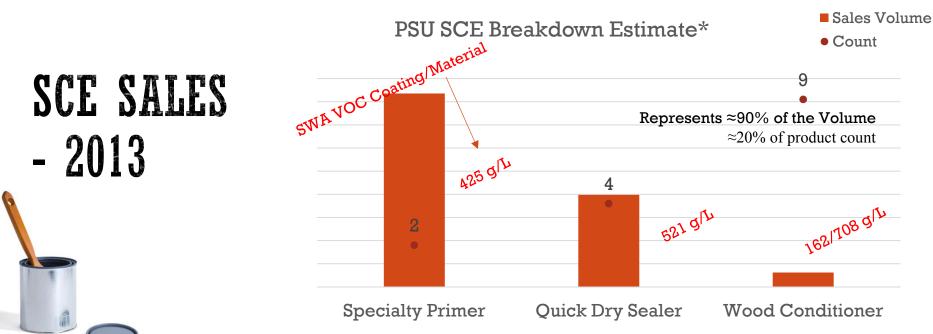
	Sales Volu	ume (gal)	Emissions (tpd)		
Category	Dual & Exterior Interior		Dual & Exterior	Interior	
Non-Flat	37,828	68,148	0.08	0.17	
PSU	60,626	8,602	0.30	0.06	
RPC	155,084	2,629	0.72	0.01	

Non-Flat Small Container Breakdown

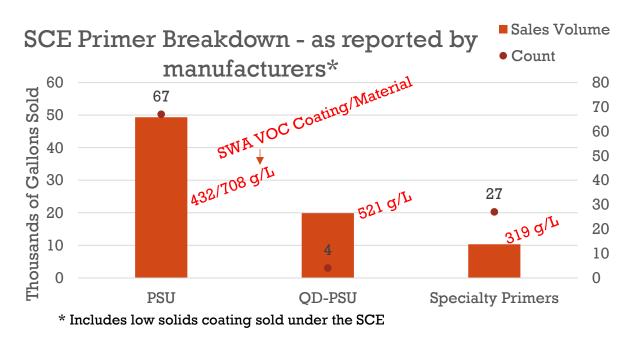


Sales Volume • Product Count





* Includes coatings reported as PSU and QD-PSU, breakdown based on product name. Does not include products categorized as specialty primers. Revised to include low solids coating sold under the SCE





OTHER CONCEPTS



TRANSFER EFFICIENCY



- Collaborate with manufacturer/ contractors to improve transfer efficiency
 - Establish a training program for contractors
 - Work with retailers who offer rental equipment
 - Phase out older, less efficient guns/tips
 - Offer the laser system to assist DYI end user

Spray Gun Manufacturers – Air Assist versus Airless Guns

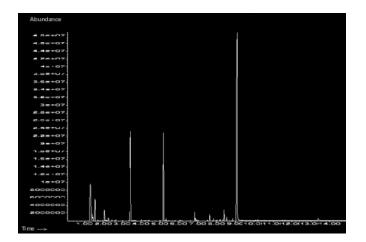
- Assess product usage
- Consider labor (including surface prep) and cost of paint
- On site review and assessment

 Explore a potential SCAQMD incentive program (e.g. provide free gun tips, laser guidance system and/or discounted guns to enhance transfer efficiency)



VOC TEST METHODOLOGY

- Include SCAQMD Laboratory Method 313
- Change VOC metric to VOC of material
 - Ongoing discussions with U.S. EPA/CARB
- Need industry support to further analyze exclusion principle
- Considering Cal Poly approach:
 - Neat Compounds evaluation (analyte + MP in pan)
 - Spike a near-Zero VOC coating











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Staff's Initial Suggestion:

GLAZES, which are coatings <u>or additives</u> designed for wet-in-wet wet edge techniques used to create artistic effects, including but not limited to dirt, old age, smoke damage, simulated marble and wood grain finishes, decorative patterns, and color blending, and wet edge techniques.

- Industry's Suggestion:
 GLAZES which are
 - GLAZÉS, which are transparent or translucent pigmented coatings or additives to coatings, designed for wet-in-wet techniques used recommended for use on previously painted surfaces to create artistic effects, including, but not limited to: dirt, old age, smoke damage, simulated marble or wood grain finishes, decorative patterns, color blending, texture, or wetedge blending techniques.



GLAZE

CARBs definition: A glaze or textured coating used to create artistic effects, including, but not limited to: dirt, suede, old age, smoke damage, and simulated marble and wood grain;



BUILDING ENVELOPE COATINGS are fluid-applied air and water resistive coatings designed to prevent the unwanted movement of air and water through the conditioned and unconditioned environment of a building.



<u>MOLD RELEASE COMPOUNDS are</u> <u>coatings designed for or applied to</u> <u>concrete to prevent freshly poured</u> <u>concrete from bonding to molds, mats or</u>

other tools used to create patterns on the surface.







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



REACTIVE PENETRATING SEALERS are clear or pigmented coatings labeled and formulated for application to abovegrade concrete and masonry substrates to provide protection from water and waterborne contaminants, including, but not limited to, alkalis, acids, and salts.

Reactive Penetrating Sealers must meet the following criteria:

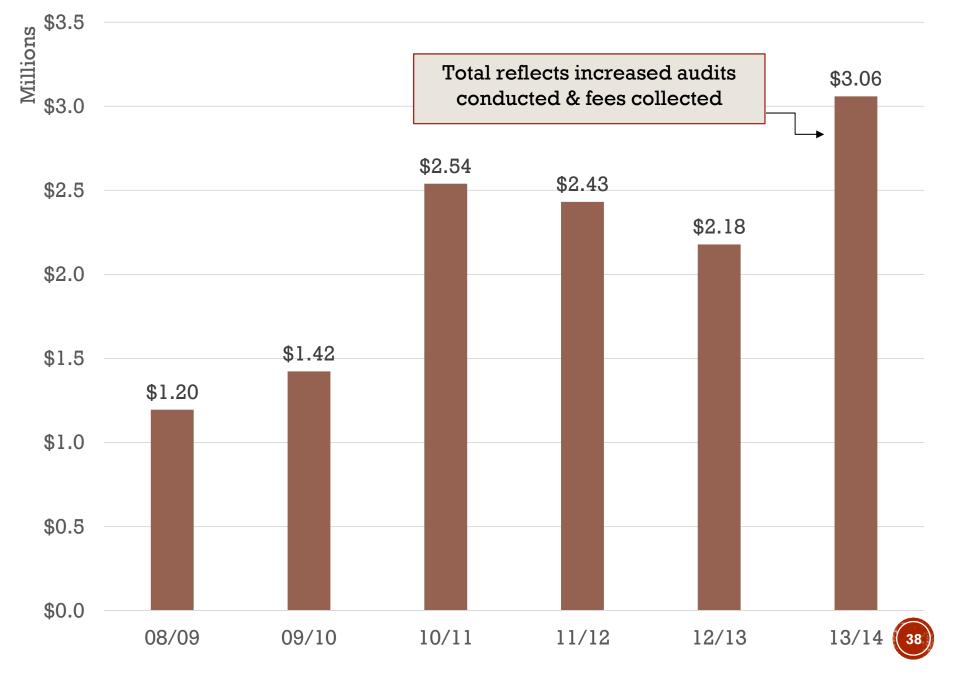
E. Not reduce the water vapor transmission rate by more than **2 percent** after application on a concrete or masonry substrate. This performance must be verified on standardized test specimens, in accordance with ASTM E96/E96M. Provide a breathable waterproof barrier for concrete or masonry surfaces that does not prevent or substantially retard water vapor transmission. This performance must be verified on standardized test specimens, in accordance with ASTM E96/E96M or ASTM D6490."



FEES COLLECTED



Total FeesCollected under Rule 314



NEXT STEPS

- Schedule Next Meeting late January/early February
 - Manufacturer Input on Amended Definitions
 - Draft Rule Language
 - Establish Direction and Timeline of the Amendment



