

ARB 2001 Architectural Coating Survey - Reactivity Analysis

Table A-1 for Noncompliant Coatings Only

SWA Composite Average MIRs for Coatings that Do NOT Comply with ARB's SCM Limits - VOCs & Exempt Compounds Only

The values in this table do not necessarily reflect the overall MIR of coatings, because they do not account for the presence of non-reactive ingredients, such as water or solids. If a product only contains a small percentage of a solvent blend that has a high composite MIR, the impact of that solvent blend may be relatively small and the overall reactivity of the coating could still be low.

Coating Category (Noncompliant Coatings Only)	SOLVENTBORNE			WATERBORNE			OVERALL			Primary Contributors	CAS #
	SWA CMIR (g O3/g TOG)	Emissions (VOCs & Exempts) tpd	Max. Ozone Potential (tpd)	SWA CMIR (g O3/g TOG)	Emissions (VOCs & Exempts) tpd	Max. Ozone Potential (tpd)	SWA CMIR (g O3/g TOG)	Emissions (VOCs & Exempts) tpd	Max. Ozone Potential (tpd)		
Bituminous Roof	1.86	0.29	0.54	2.25	0.00	0.00	1.86	0.29	0.55	Bin 15 Hydrocarbon Solvent	Bin 15
										Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 10 Hydrocarbon Solvent	Bin 10
Bituminous Roof Primer	1.40	0.21	0.30	N/A	N/A	N/A	1.40	0.21	0.30	Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 10 Hydrocarbon Solvent	Bin 10
										Bin 9 Hydrocarbon Solvent	Bin 9
Bond Breakers	N/A	N/A	N/A	4.60	0.01	0.04	4.60	0.01	0.04	Xylene	1330207
										Bin 10 Hydrocarbon Solvent	Bin 10
										Bin 22 Hydrocarbon Solvent	Bin 22
Concrete Curing Compounds	1.78	0.03	0.06	2.60	0.00	0.00	1.82	0.03	0.06	Xylene	1330207
										Bin 11 Hydrocarbon Solvent	Bin 11
										Bin 22 Hydrocarbon Solvent	Bin 22
Dry Fog	1.78	0.01	0.02	N/A	N/A	N/A	1.78	0.01	0.02	Bin 9 Hydrocarbon Solvent	Bin 9
										Aggregated VOCs < 0.1%	9981
										Bin 14 Hydrocarbon Solvent	Bin 14
Faux Finishing	1.28	0.03	0.04	2.74	0.04	0.11	2.16	0.07	0.15	Propylene Glycol	57556
										Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 11 Hydrocarbon Solvent	Bin 11
Fire Retardant - Opaque	3.12	0.00	0.00	N/A	N/A	N/A	3.13	0.00	0.00	Mineral Spirits	64742478
										Xylene	1330207
										Ethyl Benzene	100414
Flat	1.70	0.05	0.08	2.45	5.97	14.60	2.44	6.02	14.69	Ethylene Glycol	107211
										Propylene Glycol	57556
										Texanol® Ester Alcohol	25265774

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Floor	2.05	0.12	0.24	2.55	0.06	0.15	2.21	0.18	0.39	Bin 11 Hydrocarbon Solvent	Bin 11
										Xylene	1330207
										Diethylene Glycol Monomethyl Ether	111773
Form Release Compounds	1.84	0.00	0.00	N/A	N/A	N/A	1.84	0.00	0.00	Bin 15 Hydrocarbon Solvent	Bin 15
										Hydrotreated light naphthenic distillate	64742536
										Kerosene	8008206
Graphic Arts	1.11	0.00	0.00	N/A	N/A	N/A	1.11	0.00	0.00	Bin 11 Hydrocarbon Solvent	Bin 11
										Xylene	1330207
										Aggregated VOCs < 0.1%	9981
High Temperature	3.95	0.01	0.05	N/A	N/A	N/A	3.95	0.01	0.05	Xylene	1330207
										Mineral Spirits	8052413
										Bin 15 Hydrocarbon Solvent	Bin 15
Industrial Maintenance	2.85	13.64	39.09	3.56	0.14	0.48	2.87	13.78	39.57	Bin 22 Hydrocarbon Solvent	Bin 22
										Bin 6 Hydrocarbon Solvent	Bin 6
										Xylene	1330207
Lacquers	2.71	2.24	6.08	N/A	N/A	N/A	2.71	2.24	6.08	Toluene	108883
										Xylene	1330207
										Methyl Isobutyl Ketone	108101
Mastic Texture	0.91	0.18	0.16	N/A	N/A	N/A	0.91	0.18	0.16	Bin 11 Hydrocarbon Solvent	Bin 11
Metallic Pigmented	5.75	0.03	0.16	N/A	N/A	N/A	5.76	0.03	0.16	Xylene	1330207
										Bin 22 Hydrocarbon Solvent	Bin 22
										Toluene	108883
Multi-Color	1.30	0.00	0.00	4.47	0.01	0.02	4.38	0.01	0.02	Bin 22 Hydrocarbon Solvent	Bin 22
										Bin 14 Hydrocarbon Solvent	Bin 14
										Mineral Spirits	64741419
Nonflat - High Gloss	2.01	1.80	3.62	2.60	0.04	0.10	2.03	1.83	3.72	Bin 15 Hydrocarbon Solvent	Bin 15
										Bin 10 Hydrocarbon Solvent	Bin 10
										Bin 11 Hydrocarbon Solvent	Bin 11
Nonflat - Low Gloss	1.60	0.10	0.16	2.46	1.26	3.10	2.40	1.36	3.26	Ethylene Glycol	107211
										Propylene Glycol	57556
										Bin 14 Hydrocarbon Solvent	Bin 14

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Nonflat - Medium Gloss	2.12	2.05	4.36	2.30	8.97	20.62	2.27	11.01	24.98	Propylene Glycol	57556
										Ethylene Glycol	107211
										Texanol® Ester Alcohol	25265774
Other	3.08	0.02	0.06	4.76	0.00	0.00	3.07	0.02	0.06	Xylene	1330207
										Bin 11 Hydrocarbon Solvent	Bin 11
										Bin 14 Hydrocarbon Solvent	Bin 14
Pre-Treatment Wash Primer	1.71	0.01	0.02	1.58	0.00	0.00	1.72	0.01	0.02	Isopropyl Alcohol	67630
										n-Butyl Alcohol	71363
										Toluene	108883
Primer, Sealer, and Undercoater	2.12	5.00	10.65	2.53	0.30	0.79	2.16	5.30	11.44	Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 15 Hydrocarbon Solvent	Bin 15
										Bin 22 Hydrocarbon Solvent	Bin 22
Quick Dry Enamel	1.81	2.32	4.19	N/A	N/A	N/A	1.81	2.32	4.19	Bin 6 Hydrocarbon Solvent	Bin 6
										Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 11 Hydrocarbon Solvent	Bin 11
Quick Dry Primer, Sealer, and Undercoater	1.56	4.35	6.77	2.88	0.03	0.08	1.57	4.37	6.85	Bin 6 Hydrocarbon Solvent	Bin 6
										Bin 9 Hydrocarbon Solvent	Bin 9
										Bin 11 Hydrocarbon Solvent	Bin 11
Recycled	N/A	N/A	N/A	1.90	0.01	0.02	1.90	0.01	0.02	Propylene Glycol	57556
										Texanol® Ester Alcohol	25265774
										Aggregated VOCs < 0.1%	9981
Roof	2.70	0.17	0.45	N/A	N/A	N/A	2.61	0.17	0.45	Bin 6 Hydrocarbon Solvent	Bin 6
										Xylene	1330207
										Toluene	108883
Rust Preventative	1.05	0.03	0.03	N/A	N/A	N/A	1.05	0.03	0.03	Bin 11 Hydrocarbon Solvent	Bin 11
										Mineral Spirits	8032324
										Bin 12 Hydrocarbon Solvent	Bin 12
Sanding Sealers	2.10	0.13	0.28	N/A	N/A	N/A	2.10	0.13	0.28	Bin 15 Hydrocarbon Solvent	Bin 15
										Bin 14 Hydrocarbon Solvent	Bin 14
										Xylene	1330207

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Specialty Primer, Sealer, and Undercoater	1.89	0.09	0.16	N/A	N/A	N/A	1.88	0.09	0.16	Bin 14 Hydrocarbon Solvent	Bin 14
										Hydrotreated Heavy Naphtha	64742489
										Bin 9 Hydrocarbon Solvent	Bin 9
Stains - Clear/Semitransparent	1.59	7.18	11.13	1.92	0.32	0.61	1.57	7.50	11.74	Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 11 Hydrocarbon Solvent	Bin 11
										Bin 15 Hydrocarbon Solvent	Bin 15
Stains - Opaque	1.78	0.88	1.57	2.80	0.06	0.18	1.85	0.95	1.75	Aliphatic Hydrocarbons	8052413
										Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 15 Hydrocarbon Solvent	Bin 15
Swimming Pool	3.88	0.01	0.03	N/A	N/A	N/A	3.88	0.01	0.03	Xylene	1330207
										n-Butyl Alcohol	71363
										Methyl Ethyl Ketone	78933
Swimming Pool Repair and Maintenance	6.97	0.10	0.70	N/A	N/A	N/A	6.97	0.10	0.70	Xylene	1330207
										Bin 14 Hydrocarbon Solvent	Bin 14
										1,2,4-Trimethylbenzene	95636
Traffic Marking	2.25	0.29	0.66	2.22	0.02	0.04	2.24	0.31	0.70	Bin 6 Hydrocarbon Solvent	Bin 6
										Toluene	108883
										Propylene Glycol	57556
Varnishes - Clear	1.37	2.45	3.34	2.58	0.19	0.48	1.45	2.63	3.82	Bin 14 Hydrocarbon Solvent	Bin 14
										Aliphatic Hydrocarbons	8052413
										Bin 11 Hydrocarbon Solvent	Bin 11
Varnishes - Semitransparent	1.09	0.29	0.32	2.37	0.00	0.00	1.09	0.29	0.32	Bin 11 Hydrocarbon Solvent	Bin 11
										Bin 14 Hydrocarbon Solvent	Bin 14
										Stoddard Solvent	8052413
Waterproofing Concrete/Masonry Sealers	2.28	0.50	1.15	2.25	0.00	0.00	2.28	0.50	1.15	Toluene	108883
										Bin 6 Hydrocarbon Solvent	Bin 6
										Xylene	1330207

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Waterproofing Sealers	1.93	1.76	3.40	2.02	0.18	0.36	1.94	1.94	3.77	Bin 6 Hydrocarbon Solvent	Bin 6
										Hydrotreated light naphthenic distillate	64742536
										Bin 14 Hydrocarbon Solvent	Bin 14
Wood Preservatives	1.70	0.08	0.14	5.96	0.00	0.00	1.65	0.09	0.14	Hydrotreated heavy naphthenic distillate	64742525
										Stoddard Solvent	8052413
										Bin 6 Hydrocarbon Solvent	Bin 6

1. "N/A": Not applicable, because there were no coating sales and/or ingredient data reported in this category or none of the coatings were compliant.
2. The data in this table only includes coatings that do NOT comply with the VOC limits in ARB's 2000 Suggested Control Measure for Architectural Coatings.
3. The data in this table is based on sales of small containers (<= 1 quart) and large containers (> 1 quart).
4. The data in this table only includes those coatings for which complete ingredient data was available.
5. The values in this table only reflect the portion of the coating that is classified as a volatile organic compound (VOC) or exempt compound.
6. MIR numbers reflect Dr. Carter's MIR values that were current in March 2005, to be consistent with ARB's

"2001 Architectural Coatings Survey - Reactivity Analysis", dated March 2005.