

ARB 2001 Architectural Coating Survey - Reactivity Analysis

Table A-1 for Compliant Coatings Only

SWA Composite Average MIRs for Coatings that 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 (Compliant 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)		
Antenna	2.44	0.00	0.00	3.27	0.00	0.00	2.47	0.00	0.00	Bin 14 Hydrocarbon Solvent	Bin 14
										Xylene	1330207
										Bin 23 Hydrocarbon Solvent	Bin 23
Bituminous Roof	1.64	4.03	6.63	2.48	0.01	0.03	1.65	4.04	6.66	Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 9 Hydrocarbon Solvent	Bin 9
										Bin 15 Hydrocarbon Solvent	Bin 15
Bituminous Roof Primer	1.71	0.10	0.17	4.49	0.05	0.23	2.69	0.15	0.40	Bin 22 Hydrocarbon Solvent	Bin 22
										Propylene Glycol	57556
										Bin 15 Hydrocarbon Solvent	Bin 15
Bond Breakers	N/A	N/A	N/A	2.21	0.06	0.14	2.24	0.06	0.14	Morpholine	110918
										Hydrotreated light naphthenic distillate	64742536
										Mineral Spirits	64741419
Clear Brushing Lacquer	2.03	0.53	1.08	N/A	N/A	N/A	2.03	0.53	1.08	Ethylene Glycol Butyl Ether	111762
										Methyl-n-amyl Ketone	110430
										Bin 12 Hydrocarbon Solvent	Bin 12
Concrete Curing Compounds	7.36	0.06	0.43	3.67	0.29	1.10	4.37	0.35	1.53	Bin 22 Hydrocarbon Solvent	Bin 22
										Morpholine	110918
										Bin 14 Hydrocarbon Solvent	Bin 14
Dry Fog	1.72	0.84	1.45	1.58	0.24	0.39	1.69	1.09	1.84	Bin 14 Hydrocarbon Solvent	Bin 14
										Bin 7 Hydrocarbon Solvent	Bin 7
										Bin 9 Hydrocarbon Solvent	Bin 9

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Faux Finishing	1.20	0.00	0.01	2.49	0.14	0.35	2.44	0.15	0.36	Propylene Glycol	57556
										Ethylene Glycol	107211
										Bin 6 Hydrocarbon Solvent	Bin 6
Fire Resistive	N/A	N/A	N/A	2.06	0.00	0.00	2.06	0.00	0.00	Petroleum Hydrocarbon	0
										Propylene Glycol	57556
										Ethylene Glycol	107211
Fire Retardant - Clear	N/A	N/A	N/A	2.15	0.00	0.00	2.16	0.00	0.00	Aggregated VOCs < 0.1%	9981
										Isopropyl Alcohol	67630
										Formaldehyde	50000
Fire Retardant - Opaque	5.45	0.01	0.03	2.21	0.01	0.02	3.37	0.02	0.05	Xylene	1330207
										Propylene Glycol	57556
										1,2-Benzenedicarboxylic Acid, Diheptyl Ester, Branched and Linear	68515446
Flat	N/A	N/A	N/A	1.99	10.26	20.16	1.96	10.26	20.16	Ethylene Glycol	107211
										Texanol® Ester Alcohol	25265774
										Propylene Glycol	57556
Floor	4.58	0.13	0.60	2.37	1.17	2.73	2.55	1.30	3.32	Benzyl Alcohol	100516
										Propylene Glycol	57556
										Castor Oil	8001794
Flow	N/A	N/A	N/A	2.87	0.00	0.00	2.87	0.00	0.00	Ethylene Glycol Butyl Ether	111762
										Aggregated VOCs < 0.1%	9981
Form Release Compounds	1.12	0.63	0.70	1.88	0.00	0.01	1.12	0.63	0.71	Bin 11 Hydrocarbon Solvent	Bin 11
										Bin 14 Hydrocarbon Solvent	Bin 14
										Straight-run middle distillate	64741442
Graphic Arts	2.13	0.06	0.13	2.52	0.01	0.02	2.17	0.07	0.15	Bin 14 Hydrocarbon Solvent	Bin 14
										Propylene Glycol	57556
										Bin 11 Hydrocarbon Solvent	Bin 11
High Temperature	2.09	0.08	0.16	3.25	0.00	0.00	2.09	0.08	0.16	Bin 10 Hydrocarbon Solvent	Bin 10
										Methyl-n-amyl Ketone	110430
										Cellosolve Acetate	111159

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Industrial Maintenance	4.91	1.13	5.54	2.57	0.50	1.29	4.19	1.63	6.83	Bin 22 Hydrocarbon Solvent	Bin 22
										Xylene	1330207
										Ethylene Glycol Butyl Ether	111762
Lacquers	1.29	0.49	0.64	2.78	0.10	0.27	1.54	0.59	0.91	Acetone	67641
										Ethylene Glycol Butyl Ether	111762
										Xylene	1330207
Low Solids	N/A	N/A	N/A	2.98	0.01	0.03	2.97	0.01	0.03	Propylene Glycol	57556
										Ethylene Glycol Butyl Ether	111762
										Dipropylene Glycol Methyl Ether	34590948
Magnesite Cement	4.03	0.21	0.85	N/A	N/A	N/A	4.03	0.21	0.85	Bin 22 Hydrocarbon Solvent	Bin 22
										1,2,4-Trimethylbenzene	95636
										Acetone	67641
Mastic Texture	1.13	0.22	0.25	2.98	0.17	0.49	1.90	0.39	0.74	Ethylene Glycol	107211
										Bin 11 Hydrocarbon Solvent	Bin 11
										Bin 22 Hydrocarbon Solvent	Bin 22
Metallic Pigmented	3.91	2.80	10.93	1.91	0.07	0.13	3.86	2.86	11.06	Bin 22 Hydrocarbon Solvent	Bin 22
										Bin 15 Hydrocarbon Solvent	Bin 15
										Hydrotreated Heavy Naphtha	64742489
Multi-Color	N/A	N/A	N/A	2.80	0.00	0.01	2.78	0.00	0.01	Propylene Glycol	57556
										1-methyl-2-pyrrolidinone	872504
										Texanol® Ester Alcohol	25265774
Nonflat - High Gloss	3.16	0.57	1.84	2.53	1.32	3.34	2.74	1.89	5.18	Ethylene Glycol	107211
										Bin 22 Hydrocarbon Solvent	Bin 22
										Propylene Glycol	57556
Nonflat - Low Gloss	N/A	N/A	N/A	2.30	2.65	6.10	2.30	2.65	6.10	Ethylene Glycol	107211
										Propylene Glycol	57556
										Texanol® Ester Alcohol	25265774
Nonflat - Medium Gloss	N/A	N/A	N/A	2.28	4.27	9.79	2.29	4.27	9.79	Ethylene Glycol	107211
										Propylene Glycol	57556
										Diethylene Glycol Butyl Ether	112345

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Other	2.20	0.00	0.01	2.15	0.00	0.01	2.23	0.01	0.02	Hexahydro-1,3,5-tris(2-hydroxyethyl)-s-triazine	4719044
										Bin 15 Hydrocarbon Solvent	Bin 15
										Triethanolamine	102716
Pre-Treatment Wash Primer	2.04	0.01	0.02	2.51	0.08	0.19	2.45	0.09	0.21	Propylene Glycol	57556
										Dipropylene Glycol n-Butyl Ether	29911282
										Ethylene Glycol	107211
Primer, Sealer, and Undercoater	2.45	0.00	0.00	2.45	3.15	7.68	2.44	3.15	7.69	Ethylene Glycol	107211
										Benzyl Alcohol	100516
										Propylene Glycol	57556
Quick Dry Enamel	1.89	0.09	0.17	2.68	0.02	0.06	2.04	0.11	0.22	Bin 14 Hydrocarbon Solvent	Bin 14
										Ethylene Glycol Butyl Ether	111762
										Bin 22 Hydrocarbon Solvent	Bin 22
Quick Dry Primer, Sealer, and Undercoater	2.64	0.00	0.01	3.14	0.21	0.65	3.14	0.21	0.65	Ethylene Glycol	107211
										Aggregated VOCs < 0.1%	9981
										Bin 24 Hydrocarbon Solvent	Bin 24
Recycled	N/A	N/A	N/A	1.81	0.03	0.06	1.81	0.03	0.06	Propylene Glycol	57556
										Texanol® Ester Alcohol	25265774
Roof	2.98	0.04	0.13	2.32	0.36	0.85	2.45	0.40	0.98	Propylene Glycol	57556
										Ethylene Glycol	107211
										2-Amino-2-methyl-1-propanol	124685
Rust Preventative	1.76	0.70	1.22	3.20	0.03	0.09	1.79	0.73	1.31	Bin 22 Hydrocarbon Solvent	Bin 22
										Bin 11 Hydrocarbon Solvent	Bin 11
										Bin 12 Hydrocarbon Solvent	Bin 12
Sanding Sealers	N/A	N/A	N/A	2.25	0.01	0.02	2.25	0.01	0.02	Diethylene Glycol Monomethyl Ether	111773
										Propylene Glycol	57556
										Dipropylene Glycol n-Butyl Ether	29911282

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Shellacs - Clear	1.69	0.11	0.19	N/A	N/A	N/A	1.69	0.11	0.19	Ethanol	64175
										Methyl Isobutyl Ketone	108101
										Isopropanol	67630
Shellacs - Opaque	1.71	0.51	0.88	N/A	N/A	N/A	1.71	0.51	0.88	Ethanol	64175
										Isopropanol	67630
										Aggregated VOCs < 0.1%	9981
Specialty Primer, Sealer, and Undercoater	1.88	0.01	0.02	2.89	0.21	0.60	2.83	0.22	0.62	Diethylene Glycol Butyl Ether	112345
										Ethylene Glycol	107211
										Propylene Glycol	57556
Stains - Clear/Semitransparent	1.83	0.06	0.11	2.71	0.08	0.22	2.33	0.14	0.33	Ethylene Glycol	107211
										Distillate(petroleum), hydrotreated light	64742478
										Propylene Glycol	57556
Stains - Opaque	1.29	0.00	0.00	2.61	0.45	1.19	2.61	0.46	1.19	Ethylene Glycol	107211
										Propylene Glycol	57556
										Texanol® Ester Alcohol	25265774
Swimming Pool	5.19	0.04	0.20	3.02	0.01	0.03	4.74	0.05	0.23	Xylene	1330207
										Bin 22 Hydrocarbon Solvent	Bin 22
										n-Butyl Alcohol	71363
Traffic Marking	1.56	1.52	2.36	0.86	2.07	1.77	1.15	3.59	4.14	Methanol	67561
										Acetone	67641
										Xylene	1330207
Varnishes - Clear	1.75	1.14	1.99	2.77	0.33	0.92	1.98	1.47	2.91	Bin 15 Hydrocarbon Solvent	Bin 15
										Dipropylene Glycol Methyl Ether	34590948
										Bin 14 Hydrocarbon Solvent	Bin 14
Varnishes - Semitransparent	N/A	N/A	N/A	2.37	0.00	0.01	2.39	0.00	0.01	Propylene Glycol	57556
										Diethylene Glycol Monoethyl Ether	112594
										Diethylene Glycol Monomethyl Ether	111773

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Waterproofing Concrete/Masonry Sealers	2.68	0.69	1.85	2.72	0.28	0.75	2.69	0.97	2.60	Bin 22 Hydrocarbon Solvent	Bin 22
										Ethylene Glycol	107211
										Bin 14 Hydrocarbon Solvent	Bin 14
Waterproofing Sealers	3.09	0.15	0.46	2.53	0.09	0.23	2.86	0.24	0.69	Bin 22 Hydrocarbon Solvent	Bin 22
										Aliphatic Hydrocarbons	8052413
										Propylene Glycol	57556
Wood Preservatives	1.82	0.56	1.02	4.88	0.00	0.02	1.85	0.57	1.05	Aliphatic Hydrocarbons	8052413
										Mineral Spirits	64475850
										Bin 14 Hydrocarbon Solvent	Bin 14

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 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.