

CHEMICAL RESISTANCE GUIDE

The following Chemical Resistance Guide will aid in determining the effect of various chemicals to Valspar's **EPO-ROK TOP DRESSING**. Results are based on ASTM D-1380 procedure. Two samples were prepared based on a Clear and a color base mixed with UR-4 Light Gray Color Add. Each system was mixed and applied to a panel sealed with Valspar's Primer in accordance to Valspar's standard specifications. The coatings were allowed to cure for a minimum of 7 days @ 77 °F prior to testing. A rating system for this guide is as follows:

Film Integrity

1. Unaffected
2. Affected but area usable after drying
3. Partially Destroyed in contacted area
4. Contacted area destroyed

Staining

- | | |
|-------------------------------|---|
| A. Unaffected | G. Stained but removed by soap and water |
| B. Brown Stain | H. Stained but removed with xylene or abrasive cleaner |
| C. White Stain | I. Loss of Gloss |
| D. Color Lightened | J. Green or Blue Stain |
| E. Yellow Stain | K. Gray Stain |
| F. Red or Orange Stain | |

ORGANIC ACIDS

	CLEAR		W/ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Acetic Acid 5%	1A	1E	1A	1E
Acetic Acid 10%	1E	1E	1A	1E
Acetic Acid 20%	1E	1E	1A	1E
Glacial Acetic Acid	1E	2Ei	1E	3E
Butyric Acid 10%	1E	2E	1A	1A
Cresylic 10%	1E	2E	1A	2i
Formic Acid 10%	1A	1E	1A	1A
Lactic Acid 10%	1E	2E	1A	2A
Lactic Acid 25%	1E	2E	1A	2i
Maleic Acid 30%	1i	2E	1A	2i
Maleic Acid 60%	1Ei	2Ei	1A	2i
Malic Acid 50%	1Ei	2Ei	1A	2i
Monoacetic Acid 5%	1A	2E	1A	2F
Monoacetic Acid 10%	1A	2Ei	1A	2F
Oleic Acid	1A	1A	1A	1A
Oxalic Acid Sat.	1A	1A	1A	1A
Picric Acid Sat.	1E	2Ei	1E	2Ei

INORGANIC ACIDS

	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Acetic Acid 50%	1A	2E	1A	1A
Boric Acid Sat.	1A	2E	1A	2E
Chromic Acid 2%	1A	1A	1A	1B
Chromic Acid 10%	1B	2B	1B	2B
Chromic Acid 15%	1B	2B	1B	1B
Hydrochloric Acid 10%	1A	1A	1A	1A
Hydrochloric Acid 37%	1A	1A	1A	1A
Hydrochloric Acid Conc	1A	2B	1A	1A
Hydrofluoric Acid 10%	1A	1A	1A	1A
Hydrofluoric Acid 24%	1A	1A	1A	1A
Nitric Acid 10%	1A	1E	1A	1A
Nitric Acid 30%	1E	2E	1A	2E
Nitric Acid Over 40%	1E	2E	1E	2E

INORGANIC ACIDS CONT.

	CLEAR		W/ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Nitric Acid Conc	2Ei	4	2Ei	4
Perchloric Acid 35%	1A	1A	1A	1A
Phosphoric Acid 10%	1A	1A	1A	1A
Phosphoric Acid 35%	1A	1A	1A	2i
Phosphoric Acid 75%	1A	2i	1A	2i
Sulfuric Acid 25%	1A	1A	1A	1A
Sulfuric Acid 50%	1A	1A	1A	1A
Sulfuric Acid 70%	1A	1A	1A	1A
Sulfuric Acid Conc.	4	4	4	4

ALKALIES AND SALTS

	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Aluminum Chloride 50%	1A	1A	1A	1A
Ammonium Chloride 50%	1A	1A	1A	1A
Ammonium Hydroxide 10%	1A	1A	1A	1A
Ammonium Hydroxide 20%	1A	1A	1A	1A
Ammonium Hydroxide 50%	1A	1A	1A	1A
Ammonium Nitrate Sat.	1A	1A	1A	1A
Ammonium Persulfate Sat.	1A	1i	1A	1i
Ammonium Sulfate Sat.	1A	1A	1A	1A
Calcium Chloride 50%	1A	1A	1A	1A
Calcium Hydroxide Sat	1A	1A	1A	1A
Calcium Hypochlorite 15%	1A	1A	1A	1A
Ferric Chloride	1A	1A	1A	1A
Ferric Sulfate	1A	1A	1A	1A
Potassium Hydroxide 40%	1A	1A	1A	1A
Sodium Bicarbonate Sat.	1A	1A	1A	1A
Sodium Bisulfate Sat.	1A	1A	1A	1A
Sodium Carbonate Sat.	1A	1A	1A	1A
Sodium Chloride 20%	1A	1A	1A	1A
Sodium Hydroxide 10%	1A	1A	1A	1A
Sodium Hydroxide 50%	1A	1A	1A	1A
Sodium Hypochlorite 10%	1A	2i	1A	2i

ALKALIES AND SALTS CONT.				
	CLEAR		W/ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Sodium Sulfate Sat.	1A	1A	1A	1A
Sodium Sulfide Sat.	1A	1A	1A	1A
Trisodium Phosphate 10%	1A	1A	1A	1A

SOLVENTS				
	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Acetone	1A	1A	1A	1A
Benzene	1A	1A	1A	1A
Butyl Acetate	1A	1i	1A	2i
Carbon Tetrachloride	1A	1A	1A	1A
Chlorobenzene	1A	1A	1A	1A
Cyclohexane	1A	1A	1A	1A
Cyclohexanone	1A	2E	1A	2E
Chloroform	1A	1A	1A	1A
Diacetone Alcohol	1A	1A	1A	1A
Ethyl Acetate	1A	1A	1A	1A
Ethyl Alcohol	1A	1A	1A	1A
Ether	1A	1A	1A	1A
Ethylene Dichloride	1A	1i	1A	1A
Methyl Alcohol	1A	1A	1A	1A
Methyl Ethyl Ketone	1A	1A	1A	1A
Methyl Isobutyl Ketone	1A	1A	1A	1A
Methy Salicycate 50% in Toluene	1A	1A	1A	1A
Methylene Chloride	1A	1A	1A	1A
Mineral Spirits	1A	1A	1A	1A
Naphtha	1A	1A	1A	1A
Perchloroethane	1A	1A	1A	1A
Toluene	1A	1A	1A	1A
Trichloreethylene	1A	1A	1A	1A
Xylene	1A	1A	1A	1A
Gasoline	1A	1A	1A	1A
Hexane	N/A	N/A	N/A	N/A
SC-100	N/A	N/A	N/A	N/A
PM Acetate	1A	2i	1A	2i

MISCELLANEOUS CHEMICALS				
	CLEAR		W/ ECA	
	SPLASH	24 HR.	SPLASH	24 HR.
Arcylonitrile	1A	1A	1A	1A
Aniline	1Ei	2BE	1E	2EB
Beer	1A	1A	1A	1A
Blood	1A	1A	1A	1A
Bromine	4	4	4	4
Butyl Lactat	1A	2F	1A	2F
Carbon Disulfide	1A	1A	1A	1A
Corn Oil	1A	1A	1A	1A
Diethyl Phthalate	1A	1A	1A	1A
Dimethyl Phthalate	1A	1A	1A	1A
Ethylene Glycol	1A	1A	1A	1A
Formaldehyde	1A	1A	1A	1A
Glycerine	1A	1A	1A	1A
Hydrogen Peroxide	1A	2E	1A	2E
Fruit Juice	1A	1A	1A	1A
Lanoline	1A	1A	1A	1A
Mustard	1A	1E	1A	1E
Phenol 5%	1B	2Bi	1B	3Bi
Pyridine	1Ei	2BE	1F	2F
Sydrol 500A	1A	1A	1A	1A
Sugar Soln. Sat	1A	1A	1A	1A
Tiacetin	1A	1A	1A	1A
Triethylene Glycol	1A	1A	1A	1A
Water	1A	1A	1A	1A
Wine	1A	1A	1A	1A
Ketchup	1A	1A	1A	1A
Brake Fluid	1A	1A	1A	1A
Motor Oil	1A	1A	1A	1A
Grease	1A	1A	1A	1A
Tide Soln.	1A	1A	1A	1A
1,1,1 Trichloroethane	1A	1A	1A	1A
2-Nitro Propane	1A	1A	1A	1A
Turpentine	1A	1A	1A	1A
Jet Fuel A-1	N/A	N/A	N/A	N/A
Cola	1A	1A	1A	1A
10% Citric	1A	1A	1A	1A
Isopropyl Alcohol	1A	1A	1A	1A
Transmission Fluid	1A	1A	1A	1A
Amyl Aetane	1A	1A	1A	1A
Triethanolamine	1A	1A	1A	1A
Tannic Acid	1A	1A	1A	1A
Tartanic Acid	1A	1A	1A	1A
Betadine Solution	1A	1E	1A	1E
Urine	1A	1A	1A	1A

Revision: 03/07 CRG-ERtopdressing

IMPORTANT: The data on this sheet represent typical values obtained by the methods indicated. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. Unless Valspar agrees otherwise in writing, VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Unless Valspar agrees otherwise in writing, Valspar's only obligation for any defect in this product under any warranty that Valspar provides or under any other legal theory will be to replace the defective product, or to refund its purchase price, at Valspar's option. Revision E: 2-06-03