

CHEMICAL RESISTANCE GUIDE DESCOGLAS™

The following Chemical Resistance Guide will aid in determining the effect of various chemicals to Valspar's **DESCOGLAS™**. Results are based on a 24 hour spot test under a watch glass sealed with paraffin wax @ 77 °F. Three samples were prepared based on a clear, a pre-pigmented "oxford gray" and clear mixed with UR-4 Color Add "oxford gray". Each system was mixed and applied to a panel primed with Valspar's PR-14 WB Kwik Prime 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

RATINGS KEY		
E – Excellent	NR - Not Recommended	F - Fair
G – Good	OS – Occasional Spillage	

ORGANIC ACIDS

REAGENT	CONC.	CLR/P.P	RATING
Acetic	5%	F	G
Acetic	10%	NR	G
Acetic	20-80%	NR	G
Ammonia			
Citric	10%	F	F
Formic	10%	NR	G
Lactic	10%	F	F
Lactic	20%	NR	F
Lactic	40%	NR	F
Lactic	50%	NR	F
Oleic	Sat.	F	E

INORGANIC ACIDS

REAGENT	CONC.	CLR/P.P	RATING
Chromic	20%	NR	<u>G</u> N
Hydrochloric	10-30%	G	N
Hydrochloric	Conc.	NR	N
Hydrofluoric	40%	F	F
Hypochlorous	5%	G	F
Nitric	10%	F	F
Nitric	20-40%	F	N
Nitric	Over 40%	F	N
Nitric	Conc.	NR	N
Phosphoric	10-20%	F	F
Phosphoric	30%	NR	NR
Phosphoric	40% to Conc.	NR	NR
Sulfuric	25%	F	F
Sulfuric	70%	F	NR
Sulfuric	Conc.	NR	NR

ALKALIES AND SALTS

REAGENT	CONC.	CLR/P.P	RATING
Ammonium Nitrate	Sat.	F	G
Calcium Nitrate	50%	F	E
Ferric Chloride	40%	F	E
Ferric Chloride	50%	F	E
Potassium Nitrate	50%	F	G
Sodium Bicarbonate	Sat.	G	G
Sodium Bisulfate	Sat.	F	G
Sodium Carbonate	Sat.	G	G
Sodium Chloride	20%	E	E
Sodium Chloride	10%	F	E
Sodium Hydroxide	50%	G	E
Sodium Hydroxide	10%	F	F
Sodium Hypochlorite	Sat.	F	F
Sodium Sulfate	Sat.	F	F
Sodium Sulfide	Sat.	F	F
Trisodium Phosphate	10%	E	E
Trisodium Phosphate	Sat.	E	E

SOLVENTS – ALIPHATIC

<u>REAGENT</u>	<u>CONC.</u>	<u>CLR/P.P</u>	<u>RATING</u>
Gasoline	100%	G	G
Mineral Spirits	100%	G	E

SOLVENTS - AROMATIC

<u>REAGENT</u>	<u>CONC.</u>	<u>CLR/P.P</u>	<u>RATING</u>
Xylene	100%	F	F

SOLVENTS – CHLORINATED

<u>REAGENT</u>	<u>CONC.</u>	<u>CLR/P.P</u>	<u>RATING</u>
Methylene Chloride	100%	F	G
Trichloroethylene	100%	F	E

ALCOHOLS

<u>REAGENT</u>	<u>CONC.</u>	<u>CLR/P.P</u>	<u>RATING</u>
Diacetone Alcohol	100%	F	G
Ethyl Alcohol	100%	F	G
Ethylene Glycol	100%	F	E
Glycerine	100%	E	F
Isopropyl Alcohol	100%	F	F
Methyl Alcohol	100%	F	G
Phenol	5%	NR	NR
Triethylene Glycol	100%	G	G

MISCELLANEOUS CHEMICALS

<u>REAGENT</u>	<u>CONC.</u>	<u>CLR/P.P</u>	<u>RATING</u>
Aniline	100%	NR	F
Beer	100%	G	F
Butyl Alcohol			
Butyl Acetate	100%	F	F
Carbon Tetrachloride	100%	G	G
Cola	100%	G	E
Formaldehyde		1DL	1C
Hydrogen Peroxide	10%	G	G
Tartaric Acid	50%	E	F
Phenol	5%	2L	3B

AUTO BRAKE – HYDRAULIC FLUIDS

<u>REAGENT</u>	<u>CONC.</u>	<u>CLR/P.P</u>	<u>RATING</u>
Brake Fluid	100%	F	F

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