

# Chemical Resistance Guide Chart

Revision Date: 4/2/2018

E = Excellent (No Adverse Effect) – Recommended  
 ES = Excellent (No Adverse Effect) – Recommended but stains  
 G = Good (Limited Adverse Effect) – Short-term exposure only, 72hours  
 F = Fair (Moderate Adverse Effect) – Short-term exposure only, 24hours  
 P = Poor (Unsatisfactory) – Not Recommended

Note: Reduced chemical resistant and increased staining is possible in pigmented versions of this system.

Chemical depicts room/ambient temperature exposure. Exposure time is 1, 2, 5 and 7 days. Tested according to ASTM D543, special cases such as variant temperature or thermal shock exposure can be tested upon request. The results reported should serve as a guide, not as a sole basis for selecting a chemical-resistant materials for a particular application. There was no attempt given to incorporate all the various factors that may affect the performance of a material when subjected to actual service.

Chemical Name	CrownShield CrownGuard CrownShop Floor	CrownCote HB CrownCote PA CrownCoat HS	CrownCrete U
Acetic Acid, 10%	E	E	E
Acetic Acid, 30%	G	G	ES
Acetone	G	G	E
Acetonitrile	P	P	E
Amines (IPDA)	F	G	E
Ammonia, 30%	G	G	E
Ammonium Hydroxide, 30%	E	E	E
Ammonium Nitrate, 20%	E	E	E
Benzene (Crude oil constituent)	P	G	E
Benzyl Alcohol	F	G	E
Betadine	ES	G	ES
Boric Acid, 4%	E	E	E
Brake Fluid, DOT 3	F	F	S
Chromic Acid, 10%	ES	ES	ES
Chromic Acid, 30%	F	F	ES
Citric Acid, 10%	E	E	E
Citric Acid, 30%	E	E	E
Diethylene Glycol	P	F	G
Ethanol, 95%	G	G	E
Ethyl Acetate, 99%	F	G	E
Formaldehyde, 37%	E	E	E
Gasoline	E	E	E

Chemical Name	CrownShield CrownGuard CrownShop Floor	CrownCote HB CrownCote PA CrownCoat HS	CrownCrete U
Hydraulic fluids	E	E	E
Hydrochloric Acid, 10%	G	E	E
Hydrochloric Acid, 30%	F	G	ES
Hydrofluoric Acid, 10%	F	G	G
Hydrofluoric Acid, 30%	P	F	F
Hydrogen Peroxide, 10%	G	G	E
Hydrogen Peroxide, 50%	F	F	ES
Iodine, 2%	ES	ES	ES
Isopropyl Alcohol	F	F	G
Jet Fuel	E	E	E
Lactic Acid, 10%	E	E	E
Lactic Acid, 30%	G	G	ES
Lime Juice	G	G	E
Magnesium Hydroxide	E	E	E
MEK (methyl ethyl ketone)	P	F	G
Methanol	P	F	G
Methylene chloride	P	P	P
MIBK (methyl isobutyl ketone)	F	G	E
Mineral Oil	E	E	E
Mineral Spirits	E	E	E
Motor Oil (SAE 30)	E	E	E
Mustard, yellow	ES	ES	ES
Nitric Acid, 10%	G	G	ES
Nitric Acid, 30%	F	F	ES
NMP (n-methyl-2-pyrrolidone)	P	P	F
Oleic Acid	E	E	E
Oxalic Acid, 10%	E	E	E
Phosphoric Acid, 10%	G	G	E
Phosphoric Acid, 20%	G	G	E
Potassium Hydroxide, 10%	E	E	E
Potassium Hydroxide, 30%	E	E	E



Chemical Name	CrownShield CrownGuard CrownShop Floor	CrownCote HB CrownCote PA CrownCoat HS	CrownCrete U
Propylene glycol methyl solvent	G	G	E
Propylene Glycol	E	E	E
Silver Nitrate, 20% (use in photo lab)	ES	ES	E
Skydrol 500B	G	G	E
Skydrol LD4	G	G	E
Sodium Chloride, 20%	E	E	E
Sodium Hydroxide, 50% (caustic soda)	G	F	E
Sodium Hypochlorite, 10% (bleach)	E	E	E
Sodium Hypochlorite, 30% (bleach)	E	E	E
Sodium Persulfate (bleaching and oxidizing agent)	ES	ES	ES
Sulfonic Acid, 70%	F	F	G
Sulfuric Acid, 10%	G	G	ES
Sulfuric Acid, 37% (battery acid)	F	F	ES
Tannic Acid, 20%	ES	ES	ES
Tartaric Acid, 10%	E	E	E
Toluene	P	P	F
Transmission Oil	E	E	E
Trichloroethylene (anesthetic)	P	P	F
Trisodium Phosphate, 10%	E	E	E
Urine (dog)	E	E	E
Urea (nitrogen rich, fertilizer)	E	E	E
Vinegar	E	E	E
Water (hard water from well)	E	E	E
Whisky	F	G	E
Wine, cabernet sauvignon	G	E	E
Xylene	F	G	E

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