

Typical Powder Coatings Chemical Resistance Chart

<u>Chemical</u>	<u>Epoxy</u>		<u>Hybrid</u>		<u>Polyester (Thermoset)</u>		<u>Nylon</u>	
	C	H	C	H	C	H	C	H
<u>Acids:</u>								
Acetic, 10%	F	N	F	P	F	P	F	P
Acetic, Glacial	N	N	P	P	P	P	N	N
Benzene Sulfonic, 10%	E	E	F	P	F	P	F	P
Benzoic	E	E	E	E	E	E	P	P
Boric	E	E	E	E	E	E	G	F
Butyric, 100%	P	N	F	P	F	P	G	F
Chloroacetic, 10%	E	E	E	E	E	E	P	P
Chromic, 5%	F	N	P	P	P	P	G	F
Citric, 10%	E	N	E	E	E	E	G	F
Fatty Acids	E	E	E	E	E	E	G	G
Fluosilicic	N	N	P	P	P	P	P	P
Formic, 90%	E	F	P	P	P	P	P	P
Hydrobromic, 20%	G	G	G	F	G	F	P	P
Hydrochloric, 20%	E	G	G	F	G	F	P	P
Hydrocyanic	E	E	E	E	E	E	F	P
Hydrofluoric, 20%	G	G	P	P	P	P	F	F
Hypochlorous, 5%	F	N	G	F	G	F	F	P
Lactic, 5%	F	N	F	P	F	P	E	E
Maleic, 25%	E	E	E	E	E	E	F	F
Nitric, 5%	E	G	F	F	F	F	P	P
Nitric, 30%	G	P	P	P	P	P	P	P
Oleic	E	E	E	E	E	E	E	E
Oxalic	E	E	E	E	E	E	F	F
Phosphoric	G	F	G	F	G	F	P	P
Picric	G	F	G	F	G	F	G	G
Stearic	E	E	E	E	E	E	E	E
Sulfuric, 50%	G	F	F	P	F	P	P	P
Sulfuric, 80%	F	N	P	N	P	N	P	P
Tannic	E	E	E	E	E	E	G	G
<u>Alkalies:</u>								
Ammonium Hydroxide	E	G	P	P	P	P	F	F
Calcium Hydroxide	E	E	P	P	P	P	F	F
Potassium Hydroxide	E	E	P	P	P	P	F	F
Sodium Hydroxide	E	E	P	P	P	P	F	F
<u>Acid Salts:</u>								
Aluminum Sulfate	E	E	E	E	E	E	E	E
Ammonium Chloride*	E	E	E	E	E	E	E	F
Copper Chloride*	E	E	E	E	E	E	E	G
Iron Chloride*	E	E	E	E	E	E	E	G
Nickel Chloride*	E	E	E	E	E	E	E	G
Zinc Chloride*	E	E	E	E	E	E	E	F
<u>Alkaline Salts:</u>								
Barium Sulfide	E	E	E	E	E	E	G	F
Sodium Bicarbonate	E	E	E	E	E	E	G	F
Sodium Carbonate	E	E	E	F	E	F	G	F
Sodium Sulfide	E	E	E	F	E	F	G	F
Trisodium Phosphate	E	E	G	F	G	F	G	F
<u>Neutral Salts:</u>								
Calcium Chloride*	E	E	E	E	E	E	G	F
Magnesium Chloride*	E	E	E	E	E	E	E	E
Potassium Chloride*	E	E	E	E	E	E	E	E
Sodium Chloride*	E	E	E	E	E	E	E	E
<u>Solvents:</u>								
Alcohols	E	E	E	E	E	E	E	G
Aliphatic Hydrocarbons	E	E	G	G	G	G	E	G
Aromatic Hydrocarbons	E	E	G	F	G	F	F	P
Chlorinated Hydrocarbons	F	F	P	N	P	N	E	G
Ketones	F	F	F	P	F	P	E	F
Ethers	F	F	F	P	F	P	E	E
Esters	F	F	F	P	F	P	E	F
Gasoline	E	E	E	E	E	E	E	E
Carbon Tetrachloride	E	E	G	G	G	G	E	E
<u>Organics:</u>								
Aniline	G	P	P	P	P	P	F	P
Benzene	E	E	F	P	F	P	E	E
Formaldehyde, 37%	E	G	G	G	G	G	G	F
Phenol, 5%	G	F	G	F	G	F	P	P

Mineral Oils	E	E	E	E	E	E	E	E
Vegetable Oils	E	E	E	E	E	E	E	E
Chlorobenzene	G	P	G	F	G	F	E	E

Key:

- E - no attack
- G - appreciably no attack
- F - some attack, but useable in some instances
- P - attacked, not recommended for use
- N - rapidly attacked
- C - cold, 70°F.
- H - hot, 180°F. or boiling point of solvent
- * - and nitrate and sulfate

These data are intended only as a preliminary guide for material selection. Final selection should be made after consulting with Pro-Teck Coating and after testing for your specific requirements.

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