



CHEMICAL RESISTANCE CHART (ASTM C276 @ 75°F/24°C)

MiraFlor CR-N (Novolac Epoxy)

CHEMICAL	Key	Test	CHEMICAL	Key	Test
Acetaldehyde	R		Butyl Lactate	R	
Acetic Acid 10%	R		Butyric Acid	R	
Acetic Acid <50%	S		Cadmium Chloride	R	
Acetic Anhydride	S		Cadmium Nitrate	R	
Acetic Glacial	N		Cadmium Sulfate	R	
Aceto Nitrate	S		Calcium Bisulfite	R	
Acetone	R		Calcium Chlorate	R	
Acetylene	R		Calcium Chloride	R	
Adipic Acid	R		Calcium Hydroxide	R	
Aluminum Chloride	R		Calcium Hyochlorite <20%	R	
Aluminum Nitrate	R		Calcium Nitrate	R	
Aluminum Sulfate	R		Calcium Sulfate	R	
Amidosulfonic Acid	R		Carbon Disulfide	R	
Ammonia-Anhydrous	R		Carbon Monoxide	R	
Ammonium Carbonate	R		Carbon Tetrachloride	R	
Ammonium Chloride	R		Catsup	R	
Ammonium Hydroxide <30%	S		Chlorine Dry	R	
Ammonium Nitrate	R		Chlorine (5000 ppm)	R	
Ammonium Persulfate 50%	R		Chlorine Gas	R	
Ammonium Phosphate	R		Chlorine Water	R	
Ammonium Sulfate 50%	R		Chloroacetic Acid <25%	R	
Ammonium Sulfide	R		Chlorobenzene	S	
Ammonium Sulfite	R		Chloroform	R	
Amyl Acetate	S		Chlorona phthalene	S	
Amul Alcohol	R		Chloronitrobenzene	S	
Aniline	N		Chromic Acid <25%	R	
Antifreeze (Propylene glycol)	R		Chromic Acid 25%-35%	S	
Aqua Regia	N		Chromic Chloride	S	
Barium Chloride	R		Citric Acid 10%	R	
Barium Hydroxide 10%	R		Copper Acetate	R	
Barium Nitrate	R		Copper Chloride	R	
Barium Sulfide	R		Copper Fluoroborate	R	
Beer	R		Copper Nitrate	R	
Benzaldehyde	R		Copper Sulfate	R	
Benzene	R		Cottage Cheese	R	
Benzenesulfonic Acid	R		Cottonseed Oil	R	



CHEMICAL	Key	Test	CHEMICAL	Key	Test
Benzoic Acid	R		Cresols	S	
Benzyl Chloride	R		Cresylic Acid	S	
Benzyl Acetate	R		Crude Oil	R	
Benzyl Alcohol	S		Cyclohexane	R	
Black Liquor	S		Cyclohexanol	S	
Boric Acid	R		Cyclohexanone	S	
Bromine	R		Dextrose	R	
Butyl Acetate	R		Diacetone Alcohol	R	
Butyl Alcohol	R		Dichloroacetic Acid	R	
Dichlorobenzene	S		Hydrogen Sulfide	R	
Dichloroethylene	S		Hydroquinone	R	
Diesel Fuel	R		Hydrosilicofluoric Acid	S	
Diethyl Phthalate	R		Hyochlorous Acid 10%	R	
Diethylene Glycol	R		Hypo (Photographic Solution)	R	
Diethylenetriamine	R		Iron Chloride	R	
Diethyl Ether	S		Iron Nitrate	R	
Diglycolic	S		Iron Sulfate	R	
Dimethylaminoethanol	R		Isopropyl Ether	R	
Dimethyl Formamide	S		Isopropyl Alcohol	R	
Dimethyl Phthalate	R		Jet Fuel	R	
Dinitrobenzene	S		Kerosene	R	
Diphenyl	R		Ketchup	R	
Diphenyl Oxide	R		Lactic Acid <25%	R	
Ethyl Acetate	S		Lactic Acid <85%	S	
Ethyl Alcohol	R		Lard	R	
Ethylamine 40% aq.	S		Lead Acetate	R	
Ethyl Chloride	S		Lead Nitrate	R	
Ethylene Dichloride	S		Linseed Oil	R	
Ethylene Glycol	R		Magnesium Bisulfite	R	
Ethyl Sulfate	S		Magnesium Chloride	R	
Fatty Acids	R		Magnesium Hydroxide	R	
Ferric Chloride	R		Magnesium Sulfate	R	
Ferric Sulfate	R		Maleic Acid	N	
Fluorine <50%	S		Maleic Anhydride	S	
Fluorosilic Acid 30%	R		Mercuric Acetate	S	
Formaldehyde <3%	R		Mercuric Chloride	S	
Formic Acid 10%	R		Mercury	R	
Furfural	R		Methanol	S	
Furfuryl Alcohol	S		Methyl Acetate	N	
Gasoline	R		Methyl Alcohol	S	
Glycerine	R		Methyl Amine 40%	S	
Glycol Acetate	S		Methyl Cellosolve	S	



CHEMICAL	Key	Test	CHEMICAL	Key	Test
Glycolic Acid	S		Methylcyclohexanol	S	
Gold Cyanide	S		Methyl Ethyl Ketone	S	
Heptanoic Acid	S		Methyl Naphthalene	S	
Hexachlorocyclopentadiene	S		Methyl Sulfate	N	
Hexane	R		Methyl Chloride	N	
Hydrobromic Acid <50%	R		Methylene Chloride	S	
Hydrochloric Acid <70%	S		Milk	R	
Hydrocyanic Acid	S		Mineral Oil	R	
Hydrofluoroboric Acid	S		Mineral Spirits	R	
Hydrofluoric Acid	S		Nickel Nitrate	R	
Hydrofluosilicic Acid	N		Mustard	R	
Hydrogen Peroxide 10%	R		Naphthalene	R	
Nickel Chloride	R		Sodium Chlorate	R	
Nickel Sulfate	R		Sodium Chloride	R	
Nitric Acid 10%	S		Sodium Cyanide	S	
Nitric Acid >30%	S		Sodium Hypochlorite 50 ppm	R	
Nitric Acid >50%	N		Sodium Hyochlorite 5000 pmm	S	
Nitric Oxide	S		Sodium Hyochlorite <6%	S	
Nitrobenzene	N		Sodium Hyochlorite <16%	S	
Nitrosylsulfuric Acid	S		Sodium Hydroxide Aqueous <73	R	
Nitropropane	S		Sodium Hydroxide Anhydrous Solid	R	
Oleic Acid	R		Sodium Nitrate	R	
Oxalic Acid	R		Sodium Peroxide	R	
Oxygen	R		Sodium Phosphate	R	
P-dimethylaminebenzophenone	S		Sodium Sulfate	R	
Paraffin	R		Sodium Sulfide	R	
Perchloric Acid	N		Stannic Chloride	R	
Phenol	S		Stannic Sulfate	R	
Phosphoric Acid 10%	R		Stearic Acid	R	
Phosphoric Acid 50%	S		Sulfur Chloride	N	
Phosphorous Acid	R		Sulfur Dioxide	S	
Phthalic Acid	R		Sulfur Trioxide Dry	S	
Pine Oil	R		Sulfur Trioxide Wet	N	
Potassium Bicarbonate	R		Sulphuric Acid <60%	S	
Potassium Carbonate	R		Sulphuric Acid 70%	S	
Potassium Chlorate 50%	S		Sulphuric Acid 98%	S	
Potassium Chloride	R		Sulphuric Acid-Fuming	N	
Potassium Cyanide	R		Sulphurous Acid <10%	R	
Potassium Ferricyanide	R		Tannic Acid 20%	R	
Potassium Ferrocyanide	R		Tetrachloroethane	N	
Potassium Hydroxide	R		Tetrahydrofuran	S	
Potassium Nitrate	R		Toluene	R	



CHEMICAL	Key	Test	CHEMICAL	Key	Test
Potassium Permanganate	R		Toluenesulfonic Acid	R	
Potassium Peroxide	R		Trichloroacetic Acid	S	
Potassium Persulfate	R		Trichloroethylene	S	
Potassium Sulfate	R		Triethanolamine	R	
Potassium Sulfide	R		Trisodium Phosphate	R	
Pyridine	S		Turpentine	R	
Quinoline Sulfate	S		Urea	R	
Salicylic Acid	R		Vegetable Oil	R	
Silicone	R		Vinegar	R	
Silver Nitrate	R		Water	R	
Skdrol 500B-GL	R		Whiskey	R	
Sodium Acetate	R		Xylene	R	
Sodium Bicarbonate	R		Zinc Chloride	R	
Sodium Hydroxide 60%	R		Zinc Nitrate	R	
Sodium Bichromate	S		Zinc Sulfate	R	

KEY TO CHEMICAL RESISTANCE CHART

R – Recommended for Secondary Containment (72-Hour Exposure with Proper Clean Up).

S – Recommended for Intermittent Contact, Splash and Small Spills, without puddling or covering, coupled with proper cleanup. Not Recommended for Immersion or Fumes, proper housekeeping required to clean up spills.

F – Fumes only, Not Recommended for Other Exposures.

N – Not Recommended.

D – Discoloration including dyeing, blemishes, loss of gloss, spotting, staining, tarnishing, etc. may occur. Discoloration and its variations may not affect functional performance.

T – Testing may be required, consult Crossfield Products Corp. prior to specification, installation or exposure.

NOTE:

1. MiraFlor CR-N is a chemical and heat resistant novolac epoxy mortar and slurry binder and groutcoat. It is not a topcoat resin; select appropriate Miracote sealer based on performance requirements, including Chemical Resistance.
2. If no reagent concentration is noted above the Key is for all concentrations.
3. Carefully review Crossfield Products Corp., Introduction to Chemical Resistance prior to specification, installation and use.