

Technical Bulletin 135



Five Star® DP Epoxy Grout Chemical Resistance Chart

Chemical Name	Recommendation (see Key on page 4 for explanation)	Temperature Limit °F (°C)
Acetic Acid 0% - 25%	RIW	100 (37.8)
Acetic Acid > 25%	NR	N/A
Acetone	NR	N/A
Acrylic Acid	NR	N/A
Adipic Acid	NR	N/A
Alum	RI	100 (37.8)
Aluminum Sulfate	RI	140 (60.0)
Ammonium Chloride	RI	140 (60.0)
Ammonium Hydroxide 0% - 20%	RI	140 (60.0)
Ammonium Nitrate	RI	140 (60.0)
Ammonium Sulfate	RI	140 (60.0)
Barium Hydroxide	RI	140 (60.0)
Benzene	NR	N/A
Black Liquor	RIW	140 (60.0)
Boric Acid	RI	140 (60.0)
Butyl Alcohol	RI	140 (60.0)
Calcium Carbonate	RI	140 (60.0)
Calcium Chloride	RI	140 (60.0)
Calcium Hydroxide	RI	140 (60.0)
Carbon Tetrachloride	RI	140 (60.0)
Chlorine (any form)	NR	N/A
Chloroform	NR	N/A
Chromic Acid 0% - 20%	RIW	100 (37.8)
Citric Acid 0% - 50%	RI	140 (60.0)
Corn Oil	RI	72 (22.0)
Cyclohexane	RI	72 (22.0)
Dibutyl Phthalate	RI	72 (22.0)
Dimethyl Formamide	NR	N/A

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Chemical Name	Recommendation (see Key on page 4 for explanation)	Temperature Limit °F (°C)
Ethyl Alcohol < 96%	RI	140 (60.0)
Ethylene Dichloride	NR	N/A
Ethylene Glycol	RI	140 (60.0)
Ferric Sulfate	RI	140 (60.0)
Formaldehyde < 10%	RI	100 (37.8)
Furfuryl Alcohol	RI	100 (37.8)
Gasoline	RI	72 (22.0)
Gasoline (aviation)	RI	72 (22.0)
Glucose	RI	140 (60.0)
Grape Juice	RI	140 (60.0)
Hexane	RI	72 (22.0)
Hydrobromic Acid	NR	N/A
Hydrochloric Acid 0% - 20%	RIW	72 (22.0)
Hydrochloric Acid 21% - 37%	RIW	72 (22.0)
Hydrofluoric Acid	NR	N/A
Hydrogen Sulfide	RI	72 (22.0)
Isopropyl Alcohol	RI	72 (22.0)
Jet Fuel	RI	72 (22.0)
Kerosene	RI	72 (22.0)
Lactic Acid	NR	N/A
Linseed Oil	RI	72 (22.0)
Maleic Acid	NR	N/A
Methyl Alcohol	RI	72 (22.0)

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Methylene Chloride	NR	N/A
Methyl Ethyl Ketone	NR	N/A
Methyl Isobutyl Ketone	NR	N/A
Milk	RI	140 (60.0)
Naptha	RI	72 (22.0)
Nitric Acid 0% - 10%	RIW	72 (22.0)
Nitric Acid > 10%	NR	N/A
Oil, Animal	RI	120 (48.8)
Oil, Crude` `	RI	72 (22.0)
Oil, Vegetable	RI	72 (22.0)
Oleum	NR	N/A
Oxalic Acid	RI	72 (22.0)
Perchlorethylene	RI	72 (22.0)
Phenol	NR	N/A
Phosphoric Acid 0% - 20%	RI	72 (22.0)
Phosphoric Acid > 20%	NR	N/A
Potassium Carbonate 0% - 24%	RI	140 (60.0)
Potassium Chloride	RI	140 (60.0)
Potassium Fluoride	RIW	72 (22.0)
Potassium Hydroxide	RI	140 (60.0)
Potassium Permanganate	RI	72 (22.0)
Potassium Sulfate	RI	140 (60.0)
Potassium Glycol	RI	72 (22.0)
Salt Brine	RI	72 (22.0)
Sodium Bicarbonate	RI	140 (60.0)
Sodium Bisulfate	RI	140 (60.0)
Sodium Bisulfite	RI	140 (60.0)

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Sodium Carbonate	RI	140 (60.0)
Sodium Chloride	RIW	140 (60.0)
Sodium Fluoride	RIW	72 (22.0)
Sodium Hydroxide 0% - 50%	RI	140 (60.0)
Sodium Hypochlorite	NR	
Sodium Sulfate	RI	140 (60.0)
Sodium Sulfite	RI	120 (48.8)
Stearic Acid	RI	72 (22.0)
Sugar	RI	140 (60.0)
Sulfite Liquor	RI	140 (60.0)
Sulfuric Acid 0% - 50%	RIW	72 (22.0)
Sulfuric Acid > 50%	NR	N/A
Tetrahydrofuran	NR	N/A
Toluene	NR	N/A
Trichloroethylene	NR	N/A
Trisodium Phosphate	RI	140 (60.0)
Turpentine	NR	N/A
Vinegar	RI	72 (22.0)
Vinyl Acetate	NR	N/A
Water Distilled	RI	140 (60.0)
Xylene	RI	72 (22.0)

Key:	R	Recommended for immersion
	NR	Not recommended for exposure
	RI	Recommended for intermittent exposure or spillage only
	RIW	Recommended for intermittent exposure or spillage with fresh-water flush

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