

Technical Bulletin 136



Five Star® HP Epoxy Grout and Five Star® Rapid Epoxy Grout Chemical Resistance Chart

Chemical Name	Recommendation (see Key on page 4 for explanation)	Temperature Limit °F (°C)
Acetic Acid 0% - 49%	RIW	100 (37.8)
Acetic Acid > 50%	NR	N/A
Acetone	RI	100 (37.8)
Acrylic Acid	NR	N/A
Adipic Acid	RI	100 (37.8)
Alum	RI	180 (82.2)
Aluminum Sulfate	RI	180 (82.2)
Ammonium Chloride	RI	180 (82.2)
Ammonium Hydroxide	RI	160 (71.1)
Ammonium Nitrate	RI	180 (82.2)
Ammonium Sulfate	RI	180 (82.2)
Barium Hydroxide	RI	180 (82.2)
Benzene	RIW	100 (37.8)
Black Liquor	RI	160 (71.1)
Boric Acid	RI	180 (82.2)
Butyl Alcohol	RI	180 (82.2)
Calcium Carbonate	RI	180 (82.2)
Calcium Chloride	RI	180 (82.2)
Calcium Hydroxide	RI	180 (82.2)
Carbon Tetrachloride	RI	180 (82.2)
Chlorine (any form)	NR	N/A
Chloroform	RI	100 (37.8)
Chromic Acid <10%	RIW	100 (37.8)
Citric Acid	RI	160 (71.1)
Corn Oil	RI	100 (37.8)
Cyclohexane	RI	100 (37.8)
Dibutyl Phthalate	RI	180 (82.2)
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	180 (82.2)
Ethylene Dichloride	NR	N/A
Ethylene Glycol	RI	160 (71.1)
Ferric Sulfate	RI	180 (82.2)
Fluosilicic Acid	RI	100 (37.8)
Formaldehyde < 10%	RI	100 (37.8)
Furfuryl Alcohol	RI	100 (37.8)
Gasoline	RI	180 (82.2)
Gasoline (aviation)	RI	140 (60.0)
Glucose	RI	180 (82.2)
Grape Juice	RI	180 (82.2)
Hexane	RI	100 (37.8)
Hydrobromic Acid	NR	N/A
Hydrochloric Acid 0% - 20%	RIW	100 (37.8)
Hydrochloric Acid 21% - 37%	RIW	100 (37.8)
Hydrofluoric Acid	NR	N/A
Hydrogen Sulfide	RI	140 (60.0)
Isopropyl Alcohol	RI	140 (60.0)
Jet Fuel	RI	140 (60.0)
Kerosene	RI	140 (60.0)
Lactic Acid	NR	N/A
Linseed Oil	RI	100 (37.8)
Maleic Acid	RI	100 (37.8)

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Methyl Alcohol	RI	100 (37.8)
Methylene Chloride	NR	N/A
Methyl Ethyl Ketone	NR	N/A
Methyl Isobutyl Ketone	NR	N/A
Milk	RI	180 (82.2)
Naptha	RI	120 (48.8)
Nitric Acid 0% - 5%	RIW	100 (37.8)
Nitric Acid > 5%	NR	N/A
Oil, Animal	RI	120 (48.8)
Oil, Crude	RI	180 (82.2)
Oil, Vegetable	RI	120 (48.8)
Oleum	RI	72 (22.0)
Oxalic Acid	RI	100 (37.8)
Perchlorethylene	RI	100 (37.8)
Phenol 0% - 5%	RI	100 (37.8)
Phenol 6% - 25%	RIW	100 (37.8)
Phosphoric Acid 0% - 20%	RI	100 (37.8)
Phosphoric Acid > 20%	NR	N/A
Potassium Carbonate 0% - 25%	RI	180 (82.2)
Potassium Chloride	RI	180 (82.2)
Potassium Fluoride	RI	180 (82.2)
Potassium Hydroxide	RI	180 (82.2)
Potassium Permanganate	RI	180 (82.2)
Potassium Sulfate	RI	180 (82.2)
Propylene Glycol	RI	100 (37.8)
Salt Brine	RI	180 (82.2)
Sodium Bicarbonate	RI	180 (82.2)

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Sodium Bisulfate	RI	180 (82.2)
Sodium Bisulfite	RI	180 (82.2)
Sodium Carbonate	RI	180 (82.2)
Sodium Chloride	RIW	180 (82.2)
Sodium Fluoride	RI	100 (37.8)
Sodium Hydroxide 0% - 50%	RI	180 (82.2)
Sodium Hypochlorite	NR	N/A
Sodium Sulfate	RI	180 (82.2)
Sodium Sulfite	RI	180 (82.2)
Stearic Acid	RI	100 (37.8)
Sugar	RI	180 (82.2)
Sulfite Liquor	RI	180 (82.2)
Sulfuric Acid 0% - 50%	RIW	100 (37.8)
Sulfuric Acid > 50%	NR	N/A
Tetrahydrofuran	NR	N/A
Toluene	RIW	100 (37.8)
Trichloroethylene	RIW	100 (37.8)
Trisodium Phosphate	RI	180 (82.2)
Turpentine	RI	100 (37.8)
Vinegar	RI	100 (37.8)
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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