

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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Build on our strength



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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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