



Precision EPOXY Grouts Hot Weather Grouting

Elevated temperatures significantly decrease the working time of epoxy grouts. Installing epoxy grouts above 95 °F (35 °C) is not recommended unless the following guidelines are adhered to.

A. Environmental Conditioning

1. Temperature is a critical factor in the installation of epoxy grouts. The temperature of the environment and the materials being used must be controlled throughout the installation using tenting, shading, portable air conditioners, etc. as required.
2. Consideration shall be made for early morning or late-night installations.

B. Pre-Placement Conditioning

1. All epoxy components, mixing, and testing equipment shall be preconditioned/stored as necessary, so the mixed grout is below 95°F (35°C). Due to the mass of palletized (bagged) material, up to 72 hours of preconditioning may be required. Store all components in a dry, cool, indoor, or tarped area when required.
2. All surfaces in contact with epoxy grout shall be preconditioned and maintained at a temperature below 95°F (35°C) for 8 - 24 hours immediately prior to placement. Do NOT use water to cool surfaces or equipment in contact with epoxy grout.

C. Mixing / Placement

1. It is recommended to mix in a shaded environment to minimize the mix temperature of the epoxy grout. Place epoxy grout immediately after mixing. Do NOT allow epoxy grout to sit for extended periods of time.

D. Post-Placement

1. To prevent surface imperfections (frothing) in exposed epoxy grout shoulders, protect/shade from direct sunlight.
2. Installed epoxy grout temperature shall be maintained below 95 °F (35 °C) and protected from damage until the epoxy grout reaches initial set.
3. Field test samples, as needed, shall be maintained at the same installation temperature conditions to monitor strength development.
4. In-service operation may begin immediately after the required epoxy grout compressive strength has been reached.

For additional information, contact your Five Star® Technical Sales Representative.

Five Star Products follows standard industry practices. For more information, refer to PIP/API RP 686 *Process Industry Practices*; ACI 351.5-15: *Specification for Instruction of Epoxy Grout between Foundations and Equipment Bases*; ASTM C579-18 *Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacing, and Polymer Concretes*

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