

Epoxy Binder and Injection Resin

DESCRIPTION

TamRez 220 TG is a high modulus, low viscosity, epoxy resin designed for injection into non-moving cracks in concrete structures. Its medium to low viscosity will allow maximum penetration into small cracks. TamRez 220 TG exhibits extremely high strength in its cured state, thereby restoring structural integrity. It is moisture insensitive, allowing for injection into damp cracks.

KEY BENEFITS

- › Excellent adhesion
- › Moisture insensitive
- › Non-shrink
- › Pumpable
- › Aggregate extendable
- › Potable water certified

TYPICAL APPLICATIONS

- › Pre-cast members
- › Injection of cracks in dry or damp concrete
- › Columns and beams
- › Bolt grouting
- › Joint reinstatement
- › Concrete repair mortars

APPLICATION GUIDELINES

As with any epoxy resin system, surface preparation is critical. Concrete surfaces or cracked sidewalls to which this product is to be applied should be cleaned by air or water. This will ensure a superior bond.

Repairs are carried out using a suitable resin injection system such as the Tam Cartridge System or a suitable 2:1 ratio pump.

TamRez 220 TG may be used as a binder for epoxy mortars. We would recommend that a mix ratio of 4 parts (by weight) of fine clean sand is mixed with 1 part (by weight) of TamRez 220 TG to form a trowellable site mixed epoxy mortar.

TamRez 220 TG may also be used as a binder for epoxy pebbles to give the "Golden Look" or "wet look". We recommend that 10 parts (by weight) of clean dry pebbles are mixed with 1 part (by weight) of TamRez 220 TG and placed with a steel trowel.

Note: It is recommended that the material is conditioned to appropriate temperatures for at least 12 hours prior to application.

For further information on mixing and application techniques, please contact your local Normet representative

TECHNICAL DATA

TamRez 220 TG	
Density ASTM D792-20 Method A	1.05 – 1.15 g/cm ³
Viscosity ASTM D2196-20	300 – 500 mPa·s
Mix ratio	2:1
Final cure	7 days
Minimum use temperature	15°C
Pot life and gel time (200 g) ISO 9514	Pot life 60 min Gel time 90 min
Compressive strength ASTM D695-15	> 55 MPa
Flexural strength ASTM D790-17 AI	> 84 MPa
Tensile Strength ASTM D2196-20	52 MPa
Maximum exotherm	< 60°C
Pull-off strength (concrete) ASTM D4541-17 Method E Type V	5.5 MPa
Slant shear bond strength ASTM C882-C882M-13	14.7 MPa

All technical data stated herein is based on tests carried out under laboratory conditions.

SUBSEQUENT FINISHES / ONGOING MAINTENANCE

We recommend the use of TamRez Cleaner. Clean equipment immediately after use.

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PACKAGING

We recommend the use of TamRez Cleaner. Clean equipment immediately after use.

STORAGE

TamRez 220 TG should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

HEALTH & SAFETY

TamRez 220 TG should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.