

## DESCRIPTION



TamRez 220 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 exhibits extremely high strength in its cured state, thereby restoring structural integrity. It is moisture insensitive, allowing for injection into damp cracks. TamRez 220 is available in two grades Standard Grade (STD) for fast set applications and Tropical Grade (TG) for extended pot life applications.

## KEY BENEFITS

- > Fast cure (TamRez 220)
- > Increased working time (TamRez 220TG)
- > 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

## TECHNICAL DATA

TamRez 220	STD	TG
Pot Life	12 - 15 min (85 g)	40 - 60 min (150 gm)
Gel Time (0.1mm)	3 hours	12 hours
Final Cure	28 days	28 days
Viscosity	300 - 500 mPa·s	300 - 500 mPa·s
Elongation at Break	2%	2%
Modulus of Elasticity (7 days)	2.21 GPa	2.21 GPa
All at 25°C		
Performance Data		
7 days	> 72 MPa	> 96.7 MPa
Bond Strength (concrete-concrete failure)	3.8 MPa	-
Slant Shear Bond Strength ASTM C882:2005	-	16.3 MPa
Flexural Strength	> 50 MPa	> 61.6 MPa
Maximum Exotherm	> 100°C	< 60°C
Glass Transition Temperature EN 12614	> 40°C	

Note: TamRez 220TG will not set when the temperature dips below 12°C but will set once the temperature has risen again.

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

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## APPLICATION GUIDELINES

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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 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 to form a trowellable site mixed epoxy mortar.

TamRez 220 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 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.

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## SUBSEQUENT FINISHES / ONGOING MAINTENANCE

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We recommend all equipment and tools be cleaned using TamRez Cleaner.

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## PACKAGING

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TamRez 220 is supplied in 7.5 litre and 30 litre packs. Packaging size may vary subject to local regulations and requirements.

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## STORAGE

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TamRez 220 should be stored at room temperature (min 10°C and max 35°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.

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## HEALTH & SAFETY

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TamRez 220 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.

