

Universal Epoxy Putty

DESCRIPTION

TamRez 310 is a high modulus, high strength epoxy gel designed for the surface sealing of cracks prior to injection, for surface spall repairs and bonding new concrete to old. It is moisture insensitive and will cure in a damp environment.

Clean, dry, silica sand may be added to develop a non-sag gel mortar, capable of overhead and vertical patching in layers up to 50 mm thick.

KEY BENEFITS

- › Excellent adhesion
- › Non-shrink
- › Simple mix ratio ensures uniform mixing
- › Potable water certified

TYPICAL APPLICATIONS

- › Surface sealing prior to injection
- › Patching spalls, honeycombing and pop-outs
- › Setting vertical and horizontal anchor bars
- › Bonding similar and different materials to concrete

APPLICATION GUIDELINES

As with any epoxy resin system, surface preparation is critical. Sandblasting, water-blasting or other mechanical means should be used to clean the concrete surfaces. All loose or unsound material must be removed. If patching, the outer perimeter of the spall should be saw cut or chipped to near vertical. Surfaces should be dry and dust free to ensure a superior bond.

This product will cure in the presence of moisture although application onto wet surfaces is not recommended. The material can be applied easily with a trowel or putty knife.

Mix the individual components Part A and Part B separately using a slow speed drill and paddle mixer for approx. 30 seconds. Add the proper ratio of Part A - resin to the Part B - Hardener in a large mixing container (plastic preferred) and mix for a further 3 minutes. Mix material for no less than 3 minutes. Longer mixing times may be required in cooler weather. The material can be easily apply with a trowel or putty knife.

Subsequent Finishes / Ongoing Maintenance

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

TECHNICAL DATA

TamRez 310	
Colour	Grey
Density ASTM D792-20 Method A	1.43 g/cm ³
Mix ratio	1:1
Final cure	7 day
Pot life (200g) ISO 9514	20 minutes
Compressive strength ASTM D695-15	49 MPa after 4 hours 50 MPa after 28 days
Tensile adhesive strength ASTM D638-14 (Type I-V = 5 mm/min)	26 MPa Elongation 1%
Slant shear bond strength ASTM C882/C882M-13	13 MPa
Flexural strength ASTM D790-17	42 MPa
Pull-off strength (concrete) ASTM D4541-17 (Method E-Type V)	6 MPa
All at 23°C	

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

STORAGE

TamRez 310 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 310 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 Safety Data Sheet SDS is available upon request from your local Normet representative.

Whilst any information and/or specification contained herein is to the best of our knowledge, true and accurate, we always recommend that a trial be carried out to confirm suitability of the product. Please note regional climatic conditions may cause a variation in the performance of the product. No warranty is given or implied in connection with any recommendations or suggestions made by us or our representatives, agents or distributors. The information in this data sheet is effective from the date shown and supersedes all previous data. Please check with your local Normet office to confirm that this is current issue.