TamRez 320

Thixotropic Epoxy Adhesive Mortar

normet
CONSTRUCTION CHEMICALS
TECHNICAL DATA SHEET

DESCRIPTION

TamRez 320 is a 2 component high performance, structural, moisture tollerant epoxy adhesive mortar that is non slumping, easy to mix and solvent free.

TamRez 320 has outstanding properties both in its thixotropic filled rheology, and in its cured charachteristics.

TamRez 320 is designed for permenant bonding of concrete precast elements, segments, masonry, timber and metals.

KEY BENEFITS

- Thixotropic paste consistency.
- Low VOC.
- Non-shrink
- Self-priming
- Suitable for a wide range of rigid substrates.
- Extended pot life.
- Extremely pliant and shapable for adhesive spreaders, spatulas, trowels.
- Tough and durable with outstanding resistance to abrasion and chemical exposure.
- Easy mix with large yet manageable kit sizes.
- Compatible with many other technology overlays and coatings.
- Trafficable

TYPICAL APPLICATIONS

- Permanent bonding of concrete and other mineral elements, including moisture sensitive natural stone.
- Trafficable joint shoulder repairs.
- Fixing of injection ports and packers for resin injection and other grouting applications.
- Repair mortar for durability and good chemical resistance.
- Anchoring of bolts, starter bars, and other connections where resistance to vibration, pressure and impact is required.
- Crack sealing and joint filling (static)
- Scrape filling of defects and voids prior to other applications.
- Non sag for vertical and overhead use.
- Dry pack grouting 5-25mm
- Waterproof membrane connections and terminations.
- Part of the TamSeal ET Joint System.

TECHNICAL DATA

TamRez 320	
Appearance	White / Black Paste
Mixed Appearance	Grey Paste
Mixed Density	1.75kg / litre.
Total solids	100%
Pot Life	>30 Mins
Application Temperature Range	10-35 °C
Adhesion to steel (SA-2.5)	14 MPa (7 Days)
Adhesion to concrete	>2.5 MPa (7 Days)
Compressive Strength MPa	73 MPa (7 Days)
Tensile Strength	14 MPa (7 Days)

All technical data stated herein is based on tests carried out under laboratory conditions.
Testing done at 23°C

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APPLICATION GUIDELINES

Mix Ratio (w/v) = Part A : Part B
2 : 1

SURFACE PREPARATION

All substrates must be structurally sound, dry, thoroughly clean and free of oil, grease, curing membranes, loose particles and other potential bond inhibiting materials.

For best results it is recommended that concrete and other mineral or masonry elements should have compressive strength of >25MPa and tensile strength of >1MPa.

Surfaces may be matt damp but free of standing or running water. Epoxy should be thoroughly scrubbed into the surface to ensure wetting out.

For optimal adhesive and bond line performance surfaces should be mechanically prepared to >CSP3 taking care to remove all fractured materials.

Steel should be suitably prepared SA-2.5 or greater.

APPLICATION

TamRez 320 components A&B should be mechanically mixed separately prior to combining, particularly if using part kits (use of full kits is recommended).

Empty the full components of the Part B into the Part A container, ensuring all sides and bottom are scraped clean. Using a slow speed mechanical drill mixer and appropriate paddle, mix for 3-5 minutes, checking to scrape the sides to ensure all components are mixed thoroughly to a consistent texture and streak free colour. Mix only what can be used within the potlife. Discard any remaining material that has started to stiffen.

Bond line areas should be clearly identified, and surrounding areas protected from spillage.

To ensure maximum bond, it is recommended to firmly scrape or scrub TamRez 320 into the surface profile using a suitable device (spatula, flat trowel, gloved hand) before tooling or layering the adhesive bed thickness or filling of repair zone.

If bonding 2 surfaces, both surfaces should be treated as above prior to applying the adhesive bed.

Thicknesses of 1mm to 25mm can be applied.

Feather edging should be avoided in trafficable applications. A minimum thickness of 3mm should be maintained for optimal edge security and strength.

Vertical and overhead applications should be propped where required to support until hardened sufficiently.

For sections >25mm, the mixed product can be extended using 0.3-0.8 washed dried quarts sand up to 1:1 by weight. Neat mixed resin paste should be scrape primed 2-3mm prior to any extension mix overlays.

Other suitable overlays can be applied between 18-24 hours, in controlled environments. Following full cure, light abrasion scuffing, keying is essential for optimal bonding. Verification testing should be undertaken prior to application.

Full strength and performance is achieved following full cure at 7 days. This will be shorter in warmer conditions, and longer in colder conditions.

For technical support, please contact your local Normet representative.

CONSUMPTION RATES

TamRez 320 consumption rates will vary depending on target thickness & surface profile.

Kit Size	Part A	Part B
15kg	10kg	5kg

Approximately 8.5 mixed litres of product / 15kg kit.
8.5m^2 at 1mm thickness.

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PACKAGING

TamRez 320 is available in 15kg kits.
30kg kits are available for project orders.

CLEANING

Thoroughly clean all tools and equipment with TamRez Cleaner. Hardened material can be removed mechanically.

LIMITATIONS

- Do not use on substrates with live water ingress or ponding water.
- Do not use where ambient and substrate temperature is below 10°C or above 35°C.
- Pot life and curing time is shortened in warmer conditions and prolonged in cold conditions. Pre-condition kits to 20°C 48 hours prior to use to obtain better working times.
- Not compatible to HDPE, PE, PP, VLDPE and other plastics without specialist treatment.
- TamRez 320 will discolour when exposed to UV.
- Not designed as a sealant for movement, control or structural joints.
- Substrates and methodology should be tested for compatibility prior to large area usage or industrial manufacturing process.
- For specific chemical exposure, consult a Normet representative.

STORAGE

TamRez 320 should be stored between 10-30°C, kept dry and out of direct sunlight. When these conditions are met and containers remain unopened, a shelf life of 24 months can be expected.

HEALTH AND SAFETY

TamRez 320 should only be used as directed. We recommend that the Safety Data Sheet (SDS) be carefully read prior to application or handling of the material. Our recommendations for protective equipment (PPE) should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.