



TechnoFix® Epomast 200

High strength Epoxy Resinous Mortar for Repair, bedding and fixing.

Description:

TechnoFix®Epomast 200 is a three component, solvent-free, high strength epoxy resinous Mortar supplied in pre-weighed quantities ready for on-site mixing and use. It is specially designed for easy placing and compaction with negligible shrinkage designed principally for use in construction and renovation work.

TechnoFix®Epomast 200 consists of a unique blend of specially selected fillers and high purity resins that form an easily finished impervious mortar with high build characteristics combined with optimum chemical and mechanical resistance.

Application Includes:

TechnoFix®Epomast 200 has negligible shrinkage characteristics, plus high adhesion, making the product ideal for all types of concrete repair is ideally suited for:

- Repairing of deep section in columns, walls and heavily loaded areas.
- Precast units
- Spalled and cracked concrete structures
- Floors and other substrates where chemical resistance and/or impermeability to water, oil, petrol and many chemicals is required
- Sub-base for epoxy resin coatings and fine screens when a greater build is required together with a tighter and smoother finish.
- Bedding mortar beneath the transit on strips in expansion joints.
- Infill mortar beneath steelwork or concrete beams in underpinning works.

Features:

- High ultimate strength- suitable for structural use.
- High bond strength to concrete substrates.
- Highly resistant to a wide range of chemicals.
- Suitable for vertical and overhead surfaces,
- Non-shrink repairing and bedding mortar.
- Water impermeable.
- Pre-weighed components ensure consistency.

Directions for use

Substrate preparation

Proper surface preparation is the key to any successful repair application using TechnoFix®Epomast 200. The surface must be structurally sound, free from oil, grease and other forms of contamination. Concrete surface should be dry and suitably prepared either by scabbling or grit blasting to remove any surface laitance. Steel surfaces should be grit blasted to remove all rust and scale. Cement laitance should be removed by wire brushing or grit sand blasting before priming with TechnoSeal® PrimePlus.

Substrate priming

Thoroughly mix base and hardener components of the primer for 3 to 4 minutes and apply evenly to the substrate using a stiff brush. The contents of the container must be used within 45 minutes of mixing at 25°C. Priming should be carried out in advance of application of the mortar. It is essential to apply the mortar on top of the primer whilst the latter is still tacky. If the first priming coat should gel, apply a second priming coat before applying the mortar.

Mixing

Care should be taken to ensure that TechnoFix®Epomast 200 is thoroughly mixed to produce a fully homogeneous, trowellable mortar. TechnoFix®Epomast 200 must be mixed mechanically. The 'hardener' and 'base' components should be stirred thoroughly in order to disperse any settlement before mixing them together. The entire contents of the 'hardener' container should then be emptied into the 'base' container and manually mixed for 3 minutes, then emptied into a forced action mixer of adequate capacity. Add the filler component slowly with the mixer running and continue for 2 to 3 minutes until all the components are thoroughly blended. Under no circumstances should part packs be used.

Typical Properties at 20°C

Mixed Appearance	Thick grey paste
Tensile strength (BS 6319, Part 7:1985)	≥ 8 MPa @ 7 days
Flexural strength (EN 13892-2)	≥ 18 MPa @ 7 days
Bond strength (EN 1542)	> 2.0 MPa@ 7 days (concrete failure)
Fresh wet density	1.9 ± 0.1 g/cm ³ (fully compacted)
Initial curing Time	>24 hrs
Full cure	7 days
Compressive Strengths (BS 6319 Pt 2)	≥65N/mm ² @ 7 days
Pot Life	45 mins
Chemical resistance	Excellent

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

Health and Safety instructions

Some people are sensitive to resins so gloves and a barrier cream should be used when handling TechnoFix®Epomast 200. If contact with the resin occurs, it must be removed, before it hardens, with a resin removing cream. Follow by washing with soap and water. Do not use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of water and seek medical treatment immediately.

Ensure adequate ventilation in volume and pattern in working area and do not smoke during use. Consider property in proximity of the application area to prevent loss or damage. Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals. Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment.

Product only for professional use.

DISCLAIMER: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

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Please note that this datasheet supersedes all previous versions.

Placement

Apply the mixed TechnoFix®Epomast 200 to the prepared substrate by wood float, pressing firmly into place to ensure positive adhesion and full compaction. Thoroughly compact the mortar around any exposed reinforcement. In restricted location, or where exposed reinforcing steel is present, application by gloved hands is an acceptable alternative but, in all cases, the product must be finished to a tight surface with a steel trowel. TechnoFix®Epomast 200 can be applied in sections up to 50 mm thickness in horizontal locations or up to 12 mm thickness in vertical locations in a single application and without the use of form work. Thicker vertical sections may sometimes be possible dependent on the profile of the substrate and the volume of exposed reinforcing steel but should generally be built up in layers. When larger areas are being rendered, a chequer board application technique is recommended.

Note: the minimum applied thickness of TechnoFix®Epomast 200 is 5 mm.

Finishing

TechnoFix®Epomast 200 is finished by the use of a wood float and closed with a steel trowel. The completed surface should not be overworked.

Curing

TechnoFix®Epomast 200 should be allowed to cure for 24 hours at 20°C before being subjected to foot traffic. At the same temperature, full mechanical and chemical properties are achieved after 7 days (please consult our Technical Department for details of curing times at other temperatures).

Cleaning

Tools and equipments should be cleaned within the pot life of the grout with TechnoFix® Eco Cleaner. Cured material can only be removed mechanically.

Packaging

TechnoFix®Epomast 200 is supplied in 23 kg pre measured composite packs. Packaging size may vary subject to local regulations and requirements.

Shelf Life & Storage

24 months from date of production if kept in undamaged and unopened original sealed containers and store at protected area from direct sunshine in dry and cool condition at temperatures between 10°C-30°C.

Limitations

- TechnoFix®Epomast 200 should not be used when the temperature is below 5°C and falling.
- Do not mix part packs under any circumstances.
- TechnoFix®Epomast 200 should not be exposed to moving water during application. Exposure to heavy rainfall prior to the final set may result in surface scour. If any doubts arise concerning temperature or substrate conditions, consult our Technical representative.
- The material should not be applied at less than 5 mm thickness.
- Greater thicknesses than those specified above can be achieved by the application of subsequent layers.
- Larger areas should be applied in a 'chequer board' fashion.

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