



TechnoFix® Epomast ETS

High strength, abrasion-resistant, Epoxy reinstatement Mortar designed for vertical and overhead applications.

Description:

TechnoFix®Epomast ETS is a three component, solvent-free, high build, lightweight epoxy mortar supplied in pre-weighed quantities ready for on-site mixing and use specially designed for construction and renovation work in vertical and overhead applications.

TechnoFix®Epomast ETS 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 ETS is suitable for fast and permanent patch repair of concrete, particularly where high strength, abrasion and chemical resistance is required. It is ideally suited for:

- Sewage tanks
- Sea walls
- Industrial floors
- Use as a bedding mortar
- Soffits.
- Undersides of floors, beams, etc.
- Honeycombed or spalled concrete.

Features:

- High ultimate strength- suitable for structural use.
- Abrasion-resistance- suitable for heavily trafficked areas.
- Highly resistant to a wide range of chemicals.
- Suitable for vertical and overhead surfaces,
- Good adhesion and cure under damp conditions.
- Pre-weighed components ensure consistency.
- Light weight.

Directions for use

Substrate preparation

Proper surface preparation is the key to any successful repair application using TechnoFix®Epomast ETS. 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. 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 ETS is thoroughly mixed to produce a fully homogeneous, trowellable mortar. TechnoFix®Epomast ETS 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)	≥ 10 MPa @ 7 days
Flexural strength (EN 13892-2)	≥ 20 MPa @ 7 days
Bond strength (EN 1542)	> 2.0 @ 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 ETS. 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.

Additional information

Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

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.

EDITION: 10/2019/001

IDENTIFICATION NO: PD-378

Please note that this datasheet supersedes all previous versions.

Placement

Apply the mixed TechnoFix®Epomast ETS 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 ETS 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 ETS is 5 mm.

Finishing

TechnoFix®Epomast ETS 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 ETS 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 ETS is supplied in 20 kg 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 ETS should not be used when the temperature is below 5°C and falling.
- Do not mix part packs under any circumstances.
- TechnoFix®Epomast ETS 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.

STERLING TECHNO TRADE INDIA PRIVATE LIMITED

The Specialist Construction Chemical Company®

Head Office: 109-111-112, 1st Floor, Vijaya Building, No. 17, Barakhamba Road, Connaught Place, New Delhi- 110001

Manufacturing Unit: Plot No-J-3, UPSIDC Site C, Surajpur Industrial Area, Greater Noida, Uttar Pradesh 201306

WEB: sterlingtechnotrade.com | **EMAIL:** support@sterlingtechnotrade.com | **TEL:** 01145084212