



TechnoFix® Epomast InjectoSeal LV & TH

Low viscosity and thixotropic epoxy resin injection
Grout for cracked concrete, masonry and brickwork.

Description:

TechnoFix® Epomast InjectoSeal LV

A two-component, high build low viscosity epoxy resin grout for crack repairs down from 0.25-2mm wide by the injection process. During application of TechnoFix® Epomast InjectoSeal LV the moisture tolerant resin will structurally bond the fractured sections and seal fine cracks against ingress of water within structures.

TechnoFix® Epomast InjectoSeal TH

A two-component, high build thixotropic resin grout for crack repairs between 0.5 and 9mm wide by the injection process. During application of TechnoFix® Epomast InjectoSeal TH the moisture tolerant resin will repel dampness in the cracks and bond broken substrates within structures.

Application Includes:

TechnoFix® Epomast InjectoSeal LV &TH is recommended for use in the Following areas of application-

TechnoFix® Epomast InjectoSeal LV

- A low viscosity system for the injection of Structural repairs to fine cracks 0.25 to 2mm where both sides of the crack can be sealed to prevent resin drainage.
- Ideal for concrete, masonry and suspended floors.
- Repairing plastic and drying shrinkage cracks.

TechnoFix® Epomast InjectoSeal TH

- A low thixotropic resin grout system for the injection of Structural repairs to large cracks up to 9mm.
- Settlement crack repair in masonry buildings.
- Repair of cracks to cavity walls.
- Repair of cracks to Concrete bridges, retaining walls and highway structures.

Features:

TechnoFix® Epomast InjectoSeal LV

- Low viscosity: Permits maximum resin penetration
- Easy-to-use: Pre pack and weighted two component mix & suitable for Injects into cracks down to 0.2mm
- Moisture Resistant: Can be applied in damp environments
- Good Non-shrinkage properties: Ensuring excellent bond

TechnoFix® Epomast InjectoSeal TH

- Thixotropic: Permits injection of open-ended cracks
- Suitable for large crack application: Structural repairs to large cracks up to 9mm & Settlement crack repair in masonry buildings
- Wide Application: Repair of cracks to cavity walls & Concrete bridges, retaining walls and highway structures

TechnoFix® Epomast InjectoSeal LV &TH

Technical Properties:

TechnoFix® Epomast InjectoSeal LV &TH			
Tensile strength (BS 6319, Pt. 7):	>25N/mm ² @ 7 days		
Compressive strength (BS 6319, Pt. 2):	>65N/mm ² @ 7 days		
Flexural strength (BS 6319, Pt. 3):	>45 N/mm ² @ 7 days		
Pot life: The time for which bulk mixed material remains fluid will vary with temperature. Typical values in minutes are:			
TechnoFix® Epomast InjectoSeal LV	40 minutes@10 °C	20 minutes@20 °C	10 minutes@30 °C
TechnoFix® Epomast InjectoSeal TH	40 minutes@10 °C	20 minutes@20 °C	10 minutes@30 °C
Slant shear bond (BS 6319, Pt. 4) To dry concrete: To wet concrete:	>50 N/mm ² @ 7 days >40 N/mm ² @ 7 days		

Mixing

Mixing TechnoSeal®KitPro- Surface Sealant:

Mix only the quantity of sealant that can be applied within the usable life. Pour a small quantity of the resin into a suitable bucket and slowly add the powder. Stir until a smooth thick cream consistency is obtained. Mix further quantities as required.

Mixing TechnoFix® Epomast InjectoSeal LV &TH

Pour all the contents of Hardener pack into Base container. Mix for 2 minutes or more until homogeneous. At extreme temperatures refer to gel time information to enable required handling procedures to be adopted.

NB: Mechanical mixing is preferable (i.e. Jiffy mixer in slow speed drill) ensuring that the sides and bottom of the container are repeatedly scraped.

Injection

- Attach the plastic injection hose over the nipple with a jubilee clip, opening the restrictor clamp and gently pump the resin through the hose using a cartridge and gun. Inject the resin until either the desired amount of resin is injected or resin is detected in the next nipple. Close the restrictor clamp, remove the injection hose and plug the injected nipple.
- Move the injection hose up to the next nipple and repeat the process.
- Always start at the bottom of the crack so air is displaced upwards as work proceeds.
- Allow 24 hours for curing, then the plugged nipples may be broken off.
- Any depression or making good can be carried out with TechnoSeal®KitPro- Surface Sealant to achieve a smooth finish to the surface remove any excess using a grinding wheel.

- Good Adhesion: Achieves high strength bond to dry or wet concrete
- Minimum creep: Material designed for low creep
- Non-shrink: No loss of bond or surface contact
- High strength: High compressive, tensile and flexural strengths
- Chemical resistance: Withstands most chemicals, acids and alkalis, also water and frost

Instructions for use

Surface Preparation

- The crack must be thoroughly clean, dry and all loose debris removed. Where feasible, insert drinking straws or wires into the crack at sites (150 to 400 mm apart) selected for injection ports.
- Blow out the surface of the crack to remove any dust. The crack should be static, with a daily movement less than 0.03mm.
- Bond injection ports over the crack at these points with TechnoSeal@KitPro- Surface Sealant, removing the straws or wires after the TechnoSeal@KitPro -Surface Sealant has hardened. (If crack is obstructed at the surface, access may first be gained by vacuum flush drilling.) The crack should then be sealed between ports with TechnoSeal@KitPro - Surface Sealant.
- For the thixotropic injection resin, bond at intervals to coincide with the depth of penetration. Seal the remainder of the exposed crack surface, between the nipples, with TechnoSeal@KitPro-Surface Sealant and allow it to harden before injection. For low viscosity resin, ensure the other side of the cracked structure is sealed to prevent resin squeezing out during the injection process. Do not use either TechnoFix@ Epomast InjectoSeal LV injection resin low viscosity or TechnoFix@ Epomast InjectoSeal TH injection thixotropic when the air or surface temperature is below 5°C

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.

Cleaning of Tools and equipments

Used tools and equipment must be cleaned carefully with an appropriate solvent like TechnoPur® Eco Cleaner. Once cured TechnoFix® Epomast InjectoSeal LV &TH can only be removed by mechanically.

Packaging

All TechnoSeal@KitPro , TechnoFix® Epomast InjectoSeal LV &TH are supplied in 5kg composite working packs.

Storage

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palletes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palletes should not be placed on top of each other during long term storage. Keep away from any fire hazards or ignition sources

Shelf Life

When stored unopened in a dry place at temperatures above 5°C, shelf life is 12 months from date of manufacture. Opened packages should be stored under suitable storage conditions and used within 1 week.

Health and Safety instructions

Protect your health while working with this material, always use safety goggles, gloves and safety clothing. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. 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. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

*Further protection: emergency showers and eyewash stations. Get immediate medical attention as needed.

Cautions & Important Watch Points

The reaction and workability times of resin based systems depend on the ambient and substrate temperatures as well as the relative humidity. Under lower temperatures, the chemical reaction times are prolonged and this increases the pot life, coating interval and the working time. In addition to this, the consumption is increased as the viscosity increases. High temperatures ignite stronger chemical reactions and the above mentioned times decrease accordingly. For the material to be cured properly, the ambient and the substrate temperatures should not fall below the specified limits.

TechnoFix® Epomast InjectoSeal LV &TH as ready-to-use kits. No solvent etc should be added during application. The empty packs should be consolidated and disposed properly in order to prevent reusing of the packages. Epoxy and polyurethane based Products should be applied by specialists Applicators.

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