



# TechnoFix® Epomast InjectoSeal 2K-M

High Modulus Moisture insensitive Structural Low Viscosity Injection Epoxy resin Grout.

## Description:

TechnoFix® Epomast InjectoSeal 2K-M is a solvent-free, moisture insensitive, ultra-low viscosity, two component epoxy injection resin system designed specifically for use in crack grouting by pressure injection or gravity-feed and for making structural epoxy mortars and grouts in concrete and a variety of other substrates.

TechnoFix® Epomast InjectoSeal 2K-M is moisture insensitive and can be applied in damp to dry (not wet) conditions.

## Application Includes:

TechnoFix® Epomast InjectoSeal 2K-M is recommended for use in the Following areas of application-

- Pressure injection of hairline cracks
- Pre-stressed structures repairs-bridges, reservoirs, dams, etc.
- Gravity feed crack repairs
- Bonding agent for concrete, steel and wood structures
- Vertical anchor installations

## Features:

- Moisture insensitive
- Ultra-Low Viscosity, 100% Solids
- Low creep characteristics
- High compressive, tensile and flexural strengths
- Fast, convenient pumping with early strength gain
- Withstands a wide range of chemicals
- VOC Compliant
- Long Pot Life

## 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 2K-M can only be removed by mechanically.

## Packaging

TechnoFix® Epomast InjectoSeal 2K-M supplied in 6 kg and 30 kg 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.

## Instructions for use

### Surface Preparation

All surfaces must be clean and free of dirt, dust, oil, grease, curing compound or any contaminants that would adversely affect the bond. Surfaces must be structurally sound. All loose particles or soft unsound sections must be removed. Surfaces may be dry or damp but must be free of standing water.

### Typical Properties at 20°C

TechnoFix® Epomast InjectoSeal 2K-M			
Viscosity:	175 to 250 cps		
Tensile strength ASTM C307 - 94	>20N/mm <sup>2</sup> @ 7 days		
Compressive strength ASTM D695	>60N/mm <sup>2</sup> @ 7 days		
Flexural strength BS6319 Part 4	>45 N/mm <sup>2</sup> @ 7 days		
Pot life: Ambient temperature affects the time for which bulk material will remain fluid. Typical values in minutes are:			
TechnoFix® Epomast InjectoSeal 2K-M	90 minutes@ 10°C	60 minutes@ 20°C	30 minutes@ 30°C
Bond Strength-Hardened concrete to hardened concrete ASTM C 882 ASTM C 882	>20 Mpa @2 day dry cure >15 Mpa @14 day moist cure		

## Mixing

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. Scrape the bottom and sides of the containers at least once during mixing. Do not scrape bottom or sides of the container once mixing operations have ceased; doing so may result in unmixed resin or hardener being applied to the substrate. Unmixed resin or hardener will not cure properly. Do not aerate the material during mixing.

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.

## Application

### Pressure injecting vertical cracks:

- Prepare the surface and seal the cracks with technoseal®kitpro a sealing compound which can also be used for bonding injection nipples. Depending on the crack width and depth the distance between nipples should be 200 to 500 mm.
- Allow the sealing gel to sufficiently harden before injecting, to prevent blowouts.
- Inject technofix® Epomast injectoseal 2K-M into the crack via the injection ports, using pressure injection equipment.
- Start at the bottom of the crack and work upwards from port to port.
- Cap off ports as you proceed up the crack to ensure that technofix® Epomast injectoseal 2K-M is kept contained within the crack.
- Do not inject if water is leaking from the crack.

Opened packages should be stored under suitable storage conditions and used within 1 week.

**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-386

Please note that this datasheet supersedes all previous versions.

## Horizontal cracks:

- Open cracks by mechanical means and ensure that the prepared crack is free of all debris and standing water.
- If pressure injecting, instructions are the same as for vertical cracks.
- If gravity feeding, pump TechnoFix®Epomast InjectoSeal 2K-M until cracks are completely filled.
- If working on an elevated slab, ensure the bottom of the slab is sealed prior to injecting or gravity feeding the crack, to ensure epoxy does not leak through.

For filling cracks of more than 10mm and using as an epoxy mortar:

TechnoFix®Epomast InjectoSeal 2K-M has to be mixed with clean graded quartz sand from 1:3 to 1:6 parts by weight depending on the consistency required. Mixing can be done with a paddle fitted to a drilling machine.

## 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 2K-M 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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