

# COSTAR PRO INJECT FILLER

Low viscosity resin injection grout



## PRODUCT DESCRIPTION

Costar Pro Inject Filler is a double component revolutionary concrete crack fill technology, employed for use in the filling of cracks between 0.3 – 0.9 mm using modernized injection methodology. Cost Pro Inject Filler stands out for its highly bonding ability and is used where both sides of the crack is required to be sealed permanently. It has quick curing thus saving time and it is easy to install. Its renowned efficiency in crack infill is fuelled by its unique low viscosity formulation which guarantees maximum resin penetration through cracks.

## FEATURES

- Rapid curing action.
- No corrosive action evident to affect reinforcement bars.
- Unique low viscosity formulation which guarantees maximum resin penetration through cracks.
- High Adhesion strength to substrate.
- Features permanent infill of cracks.
- Resistant / tolerant to domestic acid exposure.
- Advanced Non-shrink formulation and minimum creep
- Non poisonous.
- High strength achieved once cured.

## USES

- Can be used for quick infill of concrete cracks experiencing active leakage
- Used to fill cracks on sub-structure, super structure and portable water structure.
- Used to fill cracks of structures such as basement, foundations, retaining walls, lift shaft, beam & column element etc.

## APPLICATIONS INSTRUCTION

### SURFACE PREPARATION

Adequate and detailed surface preparation is essential for durability of product after installation. Before application, surface must be clean, dry and without contamination. The compressive strength of concrete substrate must be at least 25Mpa and cohesive bond strength must not be less than 1.5MPa. All loose concrete, chippings and dust should be removed. Insert a drinking straws or wires into the crack at sites (150 to 400 mm apart) selected for injection ports. Bond injection ports over the crack at these points with Costar Krystal plug or Costar Pro Plug in accordance to technical datasheet recommendations. Remove the straws or wires once sufficiently cured. (If crack is obstructed at the surface, access may first be gained by vacuum flush drilling.)

### 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.

**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

- Connect the pump to the injection port using PVC hose preferably nylon reinforced and with clips.
- It is recommended to commence Injection at the widest part of the crack being treated, and/or at the lower end if crack is the crack is uniform in width.
- Once a port is completely filled, transfer injection to the next port when the resin is seen to have reached it.



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- After 15 to 18 hours injection cure time, protruding the injection tubes should be broken off and any damage made treated with Costar Pro Plug or Costar Krystal Plug

### TECHNICAL PROPERTIES

Packaging	1ltrs, 3ltrs, & 5ltrs,
Shelf life	12 months from date of production
Storage condition	Product must be stored in original, unopened, and undamaged sealed packaging in dry condition and temperature between +5 °C and +25 °C.
Pot Life	@ 10°C 40mins @ 20°C 20mins @ 30°C 10mins
Compressive Strength (BS 6319, Pt. 2)	@ 7days (71N/mm <sup>2</sup> )
Tensile strength (BS 6319, Pt. 7):	@ 7days (25N/mm <sup>2</sup> )
Flexural strength (BS 6319, Pt. 3)	@ 7days (48N/mm <sup>2</sup> )
Slant shear bond (BS 6319, Pt. 4)	
Applied To wet concrete:	@ 7days (38N/mm <sup>2</sup> )
Applied To dry concrete:	@ 7days (52N/mm <sup>2</sup> )

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## STORAGE AND SHELF LIFE

Protect from freezing, if frozen or crystallized, thaw gradually and stir to homogenous mixture. Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

## HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- *For Professional Use only.*

## ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

## LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.