



ARMSTRONG CHEMICALS PVT. LTD.,  
Bengaluru  
An ISO 9001 Certified Company

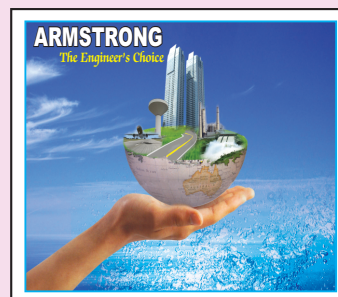
# RAPIDSTRONG GROUT<sup>®</sup> PCR 89

High Performance Two Component Injection  
Resin Based on Vinyl Ester Methacrylate

## DESCRIPTION OF THE PRODUCT

RAPIDSTRONG GROUT PCR 89 is a solvent free injection system based on vinyl ester methacrylate with corrosion resistance composition which swells and cures in contact with water to form a flexible but solid material with excellent bonding and excellent corrosion resistance to dry and wet substrates.

The cured material swells reversibly more than to its volume to act as an effective and permanent sealing against ingress of water. Ideal to inject into concrete / rock etc., with low viscosity properties for effective sealing of micro cracks and capillaries, it has excellent hydro-swelling, corrosion resistant and thermosetting chemistry, having capability of injecting the re-injectable hose.



## ADVANTAGES

- Multi parts composition provides multiple advantages with Unique technology based on Vinyl Ester Methacrylate.
- Deep penetration and tenacious crack bonding and corrosion resistant in Structural concrete in both dry and wet surface conditions.
- Can be formulated to cure down to -20°C (-4°F), allowing application in demanding situations.
- High bond strength to damp surfaces or contacted water without any adverse reactions, bubbling of formed foam layer.
- High early strength development, accelerating adhesion and sealing.
- Excellent re-injectable properties in a already injected hose which enable to seal the capillaries and micro cracks permanently.
- Hydro-swelling and thermosetting properties of grout increases its volume in contact with water and seals the crack even the crack moves.

## TYPICAL USES

- Ideal to use for pressure injection of Fine cracks, crevices and joints in Concrete, MS Columns / Structures Rock and masonry for effective seal of water ingress.
- Recommended to seal Non-moving joints and Construction joints [other than expansion joints in structural concrete.
- Horizontal cracks sealing in Structural Concrete and Masonry by gravity feeding against Penetration of water at low temperatures.
- Degree of water presence in the applied surface will determine the Expansion of grout.
- It suits to works under saline environment, and protects reinforcement / MS Structures against corrosion.

## TECHNICAL DATA

Base Chemicals	: Vinyl Ester / Acrylate Polymer
Mixed Color	: Light Amber
Corrosion Resistance to MS	: Excellent
Density of mix at 25°C	: 1.08 kg / ltr.
Application temperatures	: - 5°C to +30°C
Pot life of mix at 25°C	: 25 to 30 minutes at Ambient temperatures.

## **MIXING** Two components Part-I -Resin, Part-II-Hardener.

Prior to mixing, pre-stir Components separately to achieve an even consistency.

Take 20 Kgs of Part – I Resin into a plastic jar, Part-II Hardener 0.4 Kgs. Mix until uniform colour is achieved and inject the grout mix within its setting pot-life.

## **APPLICATION PROCEDURE** [to pressure inject cracks]

Once the mixing process is completed, inject RAPIDSTRONG GROUT PCR 89 with slow, steady pressure. The low-viscosity of the product allows it to be injected at high pressure [200 Psi] or lower pressure [40 Psi].

Start the injection process at the widest section of the crack if working horizontally or where the injection is to a vertical surface, begin at the lowest port and work upwards. Keep all ports open and continue injection into that until the pressure builds up and resin flows freely and uniformly from the next port in the sequence.

Maintain the injection duly protecting resin from direct sunlight and excessive heat to control un controlled polymerization. Do not mix large amounts and choose the volume mix in accordance with the expected consumption and time frame.

Its always good to have a sample installation to assess the surface situation and quantity of injection and procedure adaptation for smooth carry out of work.

## **TO GRAVITY FEED CRACKS**

Seal the underside of a slab prior to filling if cracks in the upper surface reflect through. Pour the mix into a V-notched crack and continue placement until completely filled.

## **CLEANING OF TOOLS**

Un cured material can be removed with appropriate cleaners. Cured product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water and use Hand Cleaner Towels.

## **STORAGE**

Store in a cool dry place, Under cover, out of direct sunlight and protect from extreme temperatures.

## **PACKING :**

RAPIDSTRONG GROUT PCR 89 is supplied in Two component system of package Part-I Resin- 20Kgs, Part-II Hardener - 2Kg.

## **LIMITATIONS**

1. RAPIDSTRONG GROUT PCR 89 must not be thinned.
2. The applied concrete must be 28 days cured and drying conditions.
3. Temperature range will be -5°C to + 30°C
4. It must contain a flammable monomer, hence there must be no Smoking, Open flames or pilot lights or use to tools or equipment which may cause sparking.

## **HEALTH AND SAFETY INFORMATION**

For information and advice on the safe handling, storage and disposal of products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

### **KEEP OUT OF REACH OF CHILDREN – FOR INDUSTRIAL USE ONLY**

Whilst **ARMSTRONG CHEMICALS PVT LTD** strives to ensure that any advice, information or recommendation given are appropriate and correct. It cannot accept any liability directly or indirectly arising out of the use of products since the method and place of application of the products are beyond its control.



**Manufacturers :**  
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