



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

RAPIDSTRONG GROUT[®] CRP 77

High Performance Two Component Cellulose Fibre Reinforced Injection PU Resin for Sealing and Strengthening of the Dry / Water bearing concrete structures.

DESCRIPTION OF THE PRODUCT

RAPIDSTRONG GROUT CRP 77 is a multiple parts, solvent free Cellulose fibre reinforced system of polyurethane based duromer low viscosity injection resin. RAPIDSTRONG GROUT CRP 77 Provides Rigid sealing and Strengthening of Cracks, Joints & Cavities in Structures under Dry conditions and also High pressure Water bearing conditions. It acts as flexible acrylate gel sealant which swells and cures in contact with water to form a flexible but solid material with excellent bonding to Dry and Wet substrates, and excellent improved strength.



ADVANTAGES

- Excellent protection and strengthening of RCC retaining walls affecting seepage and leakages.
- Ideal to inject into cracks, cavities in loose rocks etc., with very low viscosity acrylic based hydro gel for effective reinforcing of micro cracks and capillaries.
- It provides multiple advantages with Unique cellulose fibre reinforced technology.
- Deep penetration and tenacious crack bonding in Structural concrete in both dry and wet surface conditions.
- Its an ideal Product for long term water contact and periodical inhalation.
- 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.
- 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.
- Excellent product for repair works of pump house, Pipe Sockets & Drinking water Structures which meets international standards.

TYPICAL USES

- Ideal to use for pressure injection of fine cracks, crevices and joints in concrete, pit enclosures, rigid joints, rock and masonry for effective sealing 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.
- Ideal for subsoil solidification in foundations under Dry / Water pressure bearing conditions.
- It suits to works under saline environment.
- It can be used on ground water levels structures for sealing of sheet pilings, diaphragm wall.

TECHNICAL DATA

Colour	: Light Brown
Mixing ratio	: 9:1 (Part-A & Part-B)
Density of mix at 25°C	: $1.10 \text{ kg} / \text{dm}^3$ - DIN EN ISO 2811-1 / 53479
Viscosity	: mPas : 225 ± 25 - EN ISO 3219
Volume expansion in contact with water	: 1 - 12 times depending on ingress
Application temperatures	: -5°C to $+35^{\circ}\text{C}$
Comprehensive Strength	: MPa >75 - DIN EN 196 T1
Flexural Tensile Strength	: MPa 70 - DIN EN 196 T1
Working Time	: 30 to 40 Seconds

MIXING Two components resins. Part - A & Part - B mix at 9 : 1 ratio.
Prior to mixing, pre-stir Components separately to achieve an even consistency.

APPLICATION PROCEDURE [to pressure inject cracks]

Once the RAPIDSTRONG GROUT CRP 77 mixing process is completed, inject using a Two component injection pump, inject 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 PU 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 CRP 77 is supplied in Two component system of package of 10 / 20 Kgs.

SHELF LIFE : Best before 18 Months from the date of manufacturing.

LIMITATIONS

1. RAPIDSTRONG GROUT CRP 77 must not be thinned.
2. The applied concrete must be 28 days cured and drying conditions.
3. 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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