Dr. Fixit Inject AC 300-HP

POLYACRYLATE BASED HYDROPHILIC POLYMERIC GEL

Description

Dr. Fixit Inject AC 300-HP is a non-hazardous, Hydrophilic acrylate based gel which is 4 component system to be injected with 2 components injection equipment.

Dr. Fixit Inject AC 300-HP based on ultra-low viscosity hence most suitable for sealing micro cracks, dampness and Reinjectable hose and packers.

Areas of Application

- Concrete structures.
- Diaphragm walls.
- Precast sections.
- Subway stations.
- Dampness / seepage water.

Features

- User friendly- non hazardous and easy to inject.
- Ultra low viscosity- highty penetratiove in micro pores, craks and through reinjectable hsoe system to form a preventative sealing by injecting through the tubes if future re-injection is required.
- Quick reaction- faster gelling and ideal to seal the water seepages.
- Reversible reaction- reactive and reversible swelling action which prevent water seepages by hydrophilic charecteristic and volume expansion.

Method of Application

Surface Preparation

1. CRACK/ DAMP TREATMENT

- Inspect the cracks and voids of the structure and plan the best injection proposal based on placement of packers etc.
- Remove all spalled layers of plasters from the area of the injection level and patch all joints and defective brickwork with quick drying cement mortar.
- Drill holes taking into consideration the actual size (thickness) of the wall/concrete member and the size & length of injection packers to be used.
- The packers must be fixed tightly in the drill holes.
- Use suitable packers to ensure can penetrate and function for its intended use.

2. REINJECTABLE HOSE INJECTION GROUTING

- Ensure extension/ vent hose attached to Reinjectable hose without any loose contact/ leakage.
- Attached the injection equipment to ensure complete cleaning with portable water and washing throughout the Reinjectable hose.

3. MIXING RATIO

- Primarily mixed Part A1 (Acrylate emulsion) and Part A2 (Accelerator) and this considered as component A.
- Part B1(Catalyst) to be mixed with Part B2 (portable water) available in regionally and this considered as Component B.
- Both Component A& B ready to inject with equal volume 1:1 by recommended non heated plural hose injection equipment.

Components	Name	Weight	Pre-injection mixing	Final Mixing
Part A1	Acrylic emulsion	20 Kg	Part A	Part A &B mixed at tip of gun before injecting
Part A2	Accelerator	0.3 Kg		
Part B1	Catalyst	0.35 Kg	Part B	
Part B2	Portable water	20.05 Kg		

4. APPLICATION INJECTION PROCEDURES

- Dr. Fixit Inject AC 300-HP resin is a low viscous material, to be injected by means of a plural component injection pump.
- Part A and Part B must be used immediately to avoid any contamination as per recommended mixing ratio.

5. INJECTION IN TO CRACK/ DAMP AREA

- The workability of the mix is less than 2 minutes. Start injecting at a pressure depending upon the nature of the building structure, hydrodynamic & hydrostatic condition, and the desired depth of penetration.
- Carry out the injection at intervals so that it can be concluded from the reaction of the material with moisture inside and decide whether to continue or stop the injection process.
- The material can be injected at a temperature of more than 50C.

6. INJECTION IN TO REINJECTABLE HOSE (DR. FIXIT INJECT RI)

- The Preconnected equipment with Dr. Fixit Inject RI must be cleaned with portable water and decant from opposite end/ drain end.
- The available part A and part B must be injected through extension/ vent hose, once ensure the whole hose is filled with Dr. Fixit Inject AC 300-HP.
- Once ensured that all material is injected and filled in hose then seal the opposite end/ drain end to build the pressure
- Increase the working pressure in the injection tube to ensure complete penetration through joints and micro cracks.
- Release the pressure and clean the hose with portable water.
- Protect the extension/ vent hose in box/ junction so that future injection can be carried out with same whenever needed.

Precautions & Limitations

- Protect the products against the UV-light, sunlight and store between 0 and 25°C.
- Don't use water that contains a lot of minerals for the preparation of Part B. These minerals can accelerate the gel reaction.
- Acrylate injection is not suitable for active/gushing water leakages.
- Injection into reinjectable hose must require to mixed as per method statement.
- Before injection grouting ensure to conduct the small quantity trial on field to set gel time.

Technical Information

PROPERTIES	METHOD	RESULTS
Mixed Density	ASTM D 1475	1 ±0.1
pH	IS 9103	7 to 9
Adjustable Gel time		1 to 12 Minutes
Viscosity by Brookfield, cP	ASTM D 2196	<5
Shore 00	ASTM D 2240	>50

Packaging & Colour

Part A1- Acrylic emulsion :20 Kg
Part A2- Accelerator :300gm
Part B1- Catalyst :350gm

Shelf Life & Storage

- 1 years from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5°C to 40°C.

Health & Safety

- In case of contact with the skin: wash with lots of water and soap.
- These are no known health hazardous associated with normal use.

Other Products Categories available

Dr. Fixit brings you the widest range of Construction Chemicals

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