



Dr. Fixit Inject PU 200

A FAST-REACTING TWO-COMPONENT POLYURETHANE FOAM INJECTION GROUT

Description

Dr. Fixit Inject PU 200 is two components fast reacting injection grout when mixed produces hydrophobic Polyurethane foam. It reacts in both presence or absence of water and effectively performs to cut off gushing water and filling of small voids.

Areas of Application

- Sealing of leaking dams, subways, tunnels with high discharge of water leakages.
- Pre-excavation grouting to fill up small voids.
- Stabilization of foundation.
- Healing voids in without causing movement by fissure grouting.

Features and Benefits

- Lower viscosity- lower mixed viscosity <400 helps to penetrate macro as well as micro cracks.
- Non Toxic - Non harmful on Aquatic livings (zebra fish) as per IS 6582- Part 2
- Fast reaction - It reacts presence or absence of water and expands its volume & cures to very rigid very fine cellulose structure.
- Excellent Bonding - Bonds strongly with dry & wet concrete and stones.
- Durability- It can withstand high hydrostatic pressure and provide structural strengthening by sealings cracks cavities.

METHOD OF APPLICATION

MIXING

- Base and Hardener components to be injected through individual hoses and mixed 1:1 (parts by volume) at gun tip before injecting inside the crack.

MIXING	MIXED AT 1:1 BY VOLUME AT 28°C±
Cream time	< 15 Seconds
Rise time	< 20 Seconds
Tack free time	< 100 Seconds

NOTE:

Before execution a small quantity of sample to be mixed to check foam time and foam quality at ambient temperature.

If the ambient temperature is lower than 15°C, then ensure to condition the product and equipment temperature more than 30°C to meet desire foaming time and foam quality.

APPLICATION-INJECTION PROCEDURE

- Dr. Inject PU 200 to be injected by means of a twin component injection pump equipped with static inline mixer or dynamic mixer at tip of gun.
- The Dr. Inject PU 200 is instant foaming (less than 30 seconds after mixing) hence mixing to be done at gun only and start injecting at a pressure depending upon the nature of the structure condition and the desired depth of penetration.

Precautions & Limitations

- Do not dilute Dr. Fixit PU Foam injection with water or solvent.
- If environmental condition is below 15°C so, ensure to condition minimum 3 hours Dr. Fixit Inject PU 200 at more than 30°C.
- Materials should be stored in unexposed to direct sun light and moisture.
- Post completion of work, ensure to clean the equipment immediately with thinner or solvents.



Technical Information

TEST	REFERENCE STANDARD	RESULTS
Appearance		Resin: Yellow liquid Hardener: Yellow to brown liquid
Density of mixed	ASTM S 1475	< 1.25 gm/cc
Viscosity of mixed	ASTM D 2196	< 400 cP
pH of Resin	IS 9103	6±2
pH of Accelerator	IS 9103	8±2
Expansion rate	Volumetric expansion	> 16 times
Cream time		≤ 15 seconds
Rise time		≤ 20 seconds
Pot life		< 8 Seconds
Set time		≤ 10 Min
Bond strength	ASTM C 882	> 0.8 N/mm ²
Shore A hardness	ASTM D 2240	≥ 30
Shore 00 hardness	ASTM D 2240	≥ 70
Close cell content		> 90%
Acute Toxicity by using Zebra Fish	IS 6582 (Part 2)	Non Toxic

* Note: All technical properties are recorded at temperature 28°C ± 2°C

Packaging	5KG	20KG
Base	2.3KG	9.5KG
Hardener	2.7KG	10.5KG

Storage

- Dr. Fikit Inject PU 200 is sensitive to moisture and must be sealed in original containers in a dry area. Storage temperature must be between 20°C and 30°C.

Shelf Life

- Shelf life is 12 months from the date of manufacturing. Store in a cool & dry place in unopened condition.



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