



POLY GROUT AQUA-REACTIVE PU BASED EXPANDING GROUTING COMPOUND



www.injectiongROUTresin.com





TECHNICAL DATA SHEET

POLYGROUT

Aqua-Reactive Pu Based Expanding Grouting Compound

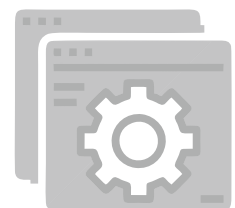
DESCRIPTION

CrackExperts Polygrout is a hydrophobic grout based on polyurethane. Upon contact with water, CrackExperts Polygrout reacts to closed cell Semi rigid foam while expanding its volume up to 3000% times. The cured material is of a constant volume. Since water is not a component of the foam structure, the cured material is essentially not affected by water or dryness. The reacted material does not shrink or swell. Depending on the pressure of injection, CrackExperts Polygrout reacts to a very dense material or foam.



FEATURES

- Negative side application possible
- Deep penetration into very small cracks
- Foam increases in volume to fill cavities and voids
- Excellent bond to surfaces
- Good adhesive strength, tolerant of movement
- Inert after curing, constant volume, no shrinkage
- Dose not create new cracks





TECHNICAL DATA SHEET

USES

Areas of application include:

- Defective concrete (cracked or honeycombed)
- Concrete joints, Limestone, Brick construction
- Pipe intrusions, Waste water tanks
- Tunnels, Dams, Subway(Metro), Sewers, Manholes, Utility boxes, etc.
- Soil stabilization



TECHNICAL PROPERTIES

Properties	Result
Form	Liquid Type
Color	Dark Brown
Solubility in Water	Hydrophobic
Density	1.18 g/ml
Viscosity	100-200
Max. Expansion (25°C)	2,700 % [Ratio 10:1 Resin : Water]
Induction Time (25°C)	15 sec [Ratio 2:1 Resin : Water]
Gel Time (25°C)	110 sec [Ratio 2:1 Resin : Water]
Tensile Shear Strength (23°C)	4 N/mm ²
Appearance	Light Yellow Polyurethane Foam
Corrosiveness	Non-Corrosive
Chemical Resistance	Resistant to most organic Solvent, Mild Acids, Alkali

TECHNICAL DATA SHEET

APPLICATION PROCESS



Check Crack Area

Check crack area and Clean up the surface with wire brush or grinder.



Drill Holes

Drill holes near cracks using hammer drill, with 45° angle from surface as image 2-1. To prevent that packers don't penetrate through a crack.



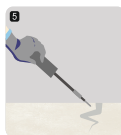
Position IT ZIGZAG

As image 3, hole positions must be zigzag.



Keep 15-20cm Distance

Make a hole as per images 2 & 3 each separated by gap of 15-20 cm from each other.



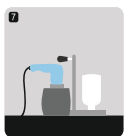
Insert Packers

Insert packers into the drilled holes. Fasten packers tightly using T- wrench.



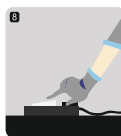
PU Injection (Polygrout)

Pour the PU Injection (Polygrout) into the plastic bottle.



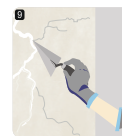
Connect the Coupler

Connect the grease coupler with the installed packer. (Inject first at low area, and then go to upper area) Down up



Inject PU Resin

Push the switch for running machine, and inject PU resin into a hole. Start with low pressure, and increase pressure. When PU resin flows out from the cracks, stop injection, and move to another packer, and start injection again.



Remove Packers

After finishing injection work, remove packers by hitting packers using a hammer. Clean the surface using a scraper or a grinder, and if needed, coat with sealing materials. How one will inject PU, after packer removal. Damaged area can be sealed with polymer modified mortar.



Clean the Machine

After doing injection grouting, clean the machine properly using xylene thinner, pour that Xylene thinner in the jar of the grouting machine and follow the procedure of cleaning.

SHELF LIFE

1 Year in tightly sealed container. Stored at a temperature of 0 to 30°C from date of import.

Upto 3 months for reuse on opening the seal but keeping material in closed container free from moisture.



PACKING

1 Kg & 10 Kg Drum Available Here

NOTES

The company's products are sold subject to the Company's standard terms and conditions of sale. Products are warranted against defective materials and workmanship. The company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the company has no control over the conditions of use, it cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.

TECHNICAL DATA SHEET



**INJECTION
GROUT RESIN**
Easy Injection, powerful results

Marketed by:

INDIA HEAD OFFICE:

B-40 Mayapuri Indl. Area Phase-1 ,New Delhi -110064,India
M.: +91 9999809983
E.: Sales@injectiongroutresin.com
W.: injectiongroutresin.com

SAUDI ARABIA/UAE HEAD OFFICE:

Al Rawda District/2,Hamed Al Jasser St
P0 Box 8515 Jeddah 23435
Kingdom of Saudi Arabia
M.: +966 50 277 8692
E.: admin@injectiongroutresin.com
W.: injectiongroutresin.com



www.injectiongroutresin.com