PU Foam 20 C

2K PU Foam injection Grout

Pack Size
991grams

TDS
Technical Data Sheet

Product Description

PU Foam 20 C is a hydrophobic grout based on polyurethane. Upon contact with water, it reacts to form a closed cell rubber-like foam, expanding its volume up to 27 times. The cured material maintains a constant volume, unaffected by water or dryness. It neither shrinks nor swells and can form a very dense material or foam depending on the pressure of injection.

Features and Benefits

- Negative side application is 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
- Constant volume, no shrinkage

Physical Parameters

Form:	Liquid type
Colour	Brown
Solubility in water:	Hydrophobic
⬛ Appearance	Light yellow Polyurethane Foam
Shelf Life:	1 Year in tightly sealed container stored at a temperature of 0 to 30°C from date of import. Up to 3 months for reuse on opening the seal but keeping material in a closed container free from moisture.

Typical Properties

Viscosity	100-200 mPa.s (KS F 4923)
Density:	1.12 g/ml (ASTM D 3800-79)

Max Expansion (25°C)	Ratio 10:1 Resin, 2,700%
Induction Time (25°C):	Ratio 2:1 Resin, 15 sec
Gel Time (25°C)	Ratio 2:1 Resin, 110 sec
Tensile Shear Strength (23°C)	4 N/mm² (KS M 3705)
Corrosiveness:	Non-Corrosive
Chemical Resistance	Resistant to most organic solvents, mild acids, alkali

Application Instructions

Surface Preparation
Check crack area and clean the surface with a wire brush or grinder.

Drill Holes
- Drill holes near cracks using a hammer drill at a 45° angle from the surface to prevent packers from penetrating through the crack.
- Position holes in a zigzag pattern, with each hole separated by a gap of 15-20cm.

Insert Packers
- Insert packers into the drilled holes and fasten tightly using a T-wrench.

Pour PU Foam 20 C
- Pour PU Foam 20 C into a plastic bottle.
- Mix with the Accelerates

Connect Coupler
- Connect the grease coupler with the installed packer, starting at a low area and moving to the upper area (down-up).

Inject PU Resin
- Inject PU resin into the hole, starting with low pressure and gradually increasing. Stop injection when PU resin flows out from the cracks and move to another packer to repeat the process.

Remove Packers
- After injection, remove packers using a hammer. Clean the surface with a scraper or grinder, and if needed, coat with sealing materials. Damaged areas can be sealed with polymer modified mortar using Repair Polymer.

Clean the Machine
- After injection grouting, clean the machine properly using xylene thinner. Pour the thinner into the jar of the grouting machine and follow the cleaning procedure.

Precautions
- Close the cap after use to avoid moisture exposure.
- Wear protective clothing, gloves, and goggles while working.
- In case of skin contact, rinse with water and soap for several minutes.
- In case of eye contact, rinse cautiously with water for 15 minutes and seek medical attention.

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Data Reliability
All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

Regional Compliance
Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

Legal Disclaimer