

MONNELI BETOTHANE 100

Rigid Polyurethane Injection Resin

Description

BETOTHANE 100 is a single component MDI-based water reactive polyurethane injection resin that has a low viscosity when in contact with water forms a temporary hydrophobic seal.

BETOTHANE 100 when in contact with water forms a carbon dioxide gas that produces a swelling pressure thus making the resin to expand into foam sealing all water penetration.

Advantages

- Penetrates even in deep fine cracks
- Does not shrink after curing
- Excellent water sealer
- The reaction speed can be controlled by varying the amount of catalyst
- Forms a hard sealing with high strength in cracks or joints
- Does not shrink, therefore volume stays the same
- Excellent adhesion to concrete
- Expands up to 2000%
- Chemically resistant against water, weak acids and alkali, mineral oils, fungus and bacteria, ground water, sea water and petroleum products

Uses

BETOTHANE 100 is a fast reacting polyurethane foam that is mainly used to act as a waterstop for the sealing of leakages or to stop active water leaks with a flow and/or high hydrostatic pressure.

BETOTHANE 100 provides excellent adhesion to mineral construction materials such as concrete, bricks, metals and certain plastics.

Instructions for Use

Mix Resin (Part A) and the Catalyst (Part B) thoroughly. Inject the mixture with a single component pump (manual, electric, pneumatic) in the crack.

Because of the low viscosity, the resin will penetrate deep into the cracks. BETOTHANE 100 polymerizes into a rigid hydrophobic foam.

Cleaning

Clean the used tools with SOLVENTE 10 every time there is a need to stop the work for more than 15 minutes and immediately after completing the job and before the product dries.

Recommendations

- BETOTHANE 100 could easily react with water or humidity in the air and forms CO₂ gas that could build up pressure in the packaging that has been opened

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Technical Properties

Properties	Result
Color	Dark Brown
Free Expansion	Up to 2000%
Density Resin (Part A) Hardener (Part B)	1.0 – 1.05 kg/L 1.1 – 1.2 kg/L
Viscosity at 25°C Resin (Part A) Hardener (Part B)	150 mPa's 100 mPa's
Mixing Ratio	1:1 by volume
Pot Life at 25°C	Approximately 90 min, remove skin from the surface (do not mix in)
Expansion at 25°C Start End	Approximately 16 seconds after contact with water Approximately 70 seconds

All values are subject to 5-10 % tolerance

Packaging

BETOTHANE 100 is supplied in 12.7 kg Resin (Part A) and 14.3 kg Hardener (Part B) kits

Storage

Keep the product in dry and covered shed with a temperature between +10°C and +30°C. If stored properly, BETOTHANE 100 has a shelf life of 12 months.

Health & Safety

Wear gloves, goggles to avoid any contact with eyes and skin. In case of contact in the eyes and skin, wash abundantly with warm water and consult a doctor. Ensure adequate ventilation at working place.

Absorb spilled resin of BETOTHANE 100 with sand and dispose according to the local regulations.

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