

MonniThane 120

Rigid Polyurethane Injection Resin

Product Description

MonniThane 120 is a low viscosity-based water reactive polyurethane injection resin. It forms a rigid hydrophobic seal when in contact with water.

MonniThane 120 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.

Uses

MonniThane 120 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.

MonniThane 120 provides excellent adhesion to mineral construction materials such as concrete, bricks, metals and certain plastics.

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

Usage Instructions

Mix Resin (Part A) and the Catalyst (Part B) thoroughly. The components are mixed in the mixing head of a two-component injection-pump, using a suitable static mixer.

Because of the low viscosity, the resin will penetrate deep into the cracks. MonniThane 120 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

- ▶ MonniThane 120 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

Technical Data

Category	Typical Values
Color	Brown
Mixing Ratio (p.b.v)	1:1
Density at 20°C (DIN 53 479)	1.13 kg/L
Viscosity at 20°C (DIN 53 018)	200 ± 50 mPa.s
Compressive Strength (DIN EN 196 T1)	Approx. 40 MPa
Slant Shear Strength (BS 6319 , Part 4)	Approx. 13.3 Mpa
Flexural Tensile Strength (DIN EN 196 T1)	Approx. 3.5 MPa
Shore A Hardness (ISO 868)	Approx. 90
Volume expansion in contact with water	1-10 times
Application time	30 seconds
Application Temperature	+6°C to 35°C

All values are subject to 5-10 % tolerance

Packaging

MonniThane 120 is supplied in canisters of 20 Liter for each component. MonniThane 120 Catalyst in a box of three 1 Liter PE bottles. MonniThane 120 Additive in a box of three 1 Liter PE bottles.

Shelf Life & Storage

Keep the product in dry and covered shed with a temperature between +10°C and +30°C. If stored properly, MonniThane 120 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 MonniThane 120 with sand and dispose according to the local regulations.

Legal disclaimer

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