

# MONNELI BETOTHANE 120

*Rigid Polyurethane Injection Resin*

## Product Description

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A low viscosity, MDI-based water reactive polyurethane injection resin. It forms a rigid hydrophobic seal when in contact with water.

BETOTHANE 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

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BETOTHANE 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.

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

## Advantages

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- 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

## Instructions for Use

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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. BETOTHANE 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.

## Recommendation

- BETOTHANE 120 could easily react with water or humidity in the air and forms CO<sub>2</sub> gas that could build up pressure in the packaging that has been opened.

## Technical Data

Properties	Results
Appearance	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

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

## Storage

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

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