

MonniThane 150

Flexible Polyurethane Injection Resin

Product Description

MonniThane 150 is a two component MDI-based polyurethane injection resin which has a very low viscosity.

MonniThane 150 reacts in wet or dry cracks and joints. It has special characteristics that when in contact with water, the product will react and starts to foam while during the absence of water, it acts as a flexible seal.

Uses

MonniThane 150 is mainly used for sealing cracks and joints in walls, floors, concrete construction, sewers etc.

Advantage

- ▶ Could be injected in wet and dry structures
- ▶ Elastic water sealing of cracks and joints in walls, floors and concrete constructions
- ▶ Excellent adhesion to concrete and metal even without primer
- ▶ Cured resin does not swell in contact with water
- ▶ Non-corrosive to metals
- ▶ Does not shrink, therefore volume stays the same
- ▶ Could be used to inject into injection hoses

Usage Instructions

Preparation

Before injection, the structure's cracks and voids, respectively the leakage, have to be inspected according to technical standards and regulations, and an injection proposal is to be prepared.

Mixing

MonniThane 150 consists of two components, component A (base) and component B (hardener) which have to be mixed according to the advised mixing ratio and must be thoroughly blended with a slowly rotating mechanical mixer. Before use the mixed reaction resin has to be refilled into either a clean empty pack or into a pack which has been used exclusively for mixed resins of equal quality. The re-potting is complete when the resin has been filled into the storage container of an injection pump. The pot life depends on the prepared amount and the ambient temperatures.

Acceleration of reactivity

The reaction time of the resin can be accelerated via MonniThane 150 Catalyst (addition of up to 1 % relating to component A).

Prior to the mixing of the two components the catalyst has to be mixed into component A.

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 150 Component B 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
Mixing Ratio (p.b.v.)	3:1
Colour	Light Brown
Density (DIN 53479)	0.98 kg/L
Viscosity at 20°C (DIN 53 018)	150 mPa.s
Expansion Ratio in Water (DIN EN 14406)	1.04
Shore A Hardness (ISO 868)	35
Application Time (DIN EN 1504-5)	40 minutes
Maximum Expansion (DIN 53455)	40%
Application Temperature and Substrate Material Temperature	+6 to +35°C
Time after Mixture is No longer Liquid at 25°C	6 hours
Time after Mixture is Completely Cured at 25°C	5 days
Water Tightness under Pressure	≥ 2 x 105 Pa
Compatibility with Concrete	Pass
Modulus of Elasticity after 5 days at 25°C	6.6 N/mm ²
Tensile Strength after 5 days at 25°C	>3 N/mm ²
Elongation at Break after 5 days at 25°C	125%
Adhesion at 3°C	1.30 N/mm ²
Adhesion to Dry Concrete	0.60 N/mm ²
Adhesion to Wet Concrete	3.50 N/mm ²
Adhesion to Sand Blasted Metal Plate	
Elongations (EN 12618-1)	115%

All values are subject to 5-10 % tolerance

Applicable Standards

- ▶ EN 14068EN
- ▶ ISO 527
- ▶ EN 1771
- ▶ EN 12614
- ▶ EN 12618

Packaging

MonniThane 150 is packed in 2 part kit:

Part A: 25 Kg

Part B: 2.5 Kg

Shelf Life & Storage

Keep the product in dry and covered shed with a temperature between +10°C and +30°C. If stored properly, MonniThane 150 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 150 with sand and dispose according to the local regulations.

Legal disclaimer

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VER.1.2019