

# **MonniThane 180**

Two Component Polyurethane Injection Resin

## **Product Description**

MonniThane 180 is a two component, medium viscosity MDI-based water reactive polyurethane injection resin that when in contact with water forms a flexible foam without shrinkage

#### **Uses**

MonniThane 180 is mainly used for permanent sealing cracks and joints in walls, floors, concrete construction, sewers etc.

MonniThane 180 provides excellent adhesion to construction materials (such as concrete, cement and bricks), metal and certain plastics.

## **Advantages**

- Penetrates even in deep, fine cracks
- ► The reaction speed can be controlled by varying the amount of catalyst
- Very good water sealer for cracks and joints
- ► Forms a hard sealing with high strength in cracks or joints
- Does not shrink, therefore volume stays the same
- Chemically resistant against water, weak acids and alkali, and micro-organisms
- ► Expands up to 1000%
- Excellent adhesion to concrete surfaces
- Creates a flexible foam when in contact with water

## **Usage Instructions**

Mix the MonniThane 180 Resin with 6-10% catalyst thoroughly. Inject the mixture with a single component pump in the crack.

Because of the medium viscosity and the extended duration of the polymerization process, the resin will penetrate deep into the crack.

Ones the mixture comes in contact with water, a flexible polyurethane is formed.

#### 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 180 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
- The reaction speed is controlled by varying the amount of catalyst
- Use 6 up to 10% catalyst to achieve a good cellulation

VER.2.2023



#### **Technical Data**

Category	Typical Values	
Color	Colorless	
Expansion (EN 14406) Density	23 Times	
Resin Catalyst Mix (A+B)	1.13 kg/L 1.08 kg/L 1.12 kg/L	
Viscosity at 25°C Resin Catalyst	817 mPa's 9 mPa's	
Mixing Rate	10:1	
Reaction Time (ASTM D7487)	65g resin + catalyst+ 35g water (20 -120 sec)	

All values are subject to 5-10 % tolerance

		Start	End
	% Catalyst	Reaction	Reaction
10°C	2%	2'11"	14'25"
	6%	2"	7′50″
	9%	1′54″	7′35″
15°C	2%	1'46"	15'55"
	6%	1′37″	7′15″
	9%	48"	6'09"
20°C	2%	1′12″	9′15″
	6%	54"	4'25"
	9%	40"	3′10″
25°C	2%	1′02″	9′10″
	6%	51"	4′10″
	9%	37"	3′

All values are subject to 5-10 % tolerance

## **Packaging**

MonniThane 180 is supplied in two component kit:

Resin : 25 kg Catalyst : 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 180 will have 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 180 with sand and dispose according to the local regulations

# Legal disclaimer

Monneli endeavors to ensure that any advice, recommendations, information it may give, is accurate and correct. It cannot accept any liability either directly or indirectly arising from the use of its products, because it has no direct or continuous control over where or how its products are applied, whether or not in accordance with any advice, specification, recommendation or information given by us. Monneli has the right to change any of the specifications mentioned in the Technical data sheets upon its discretion without prior notification. Hard copies of TDSs are printed once or twice a year, while our technical data sheets are continuously being updated as per R&D improvements and new 3rd party testing; kindly refer to our website for the latest updated TDSs.

VER.2.2023