

ONE-COMPONENT POLYURETHANE INJECTION RESIN

CHARACTERISTIC

One-component semi-hard polyurethane resin with closed cells reacting in the presence of water without solvents and phthalates. It is characterized by low viscosity, fast reaction and high coefficient of expansion.

It can be used to stop rising damp, but also to stop high-pressure water leaks. Stopping water leaks in foundations such as underground walls, piles. To stop water leaks in large cracks, voids and gravel layers. Grouting in mines, tunnels, pipelines, TBM applications. Grouting in combination with cement mixture. Injection of cracks and layers of gravel in concrete structures. Due to its viscosity, it is very suitable for injecting masonry against ground and rising moisture, where a mechanical barrier is created in the masonry after the mass has hardened. Stopping water leaks in sewers.

PROPERTIES

- One-component hydrophobic PU resin
- Polymerization in the presence of water or moisture
- Very low viscosity
- Rapid onset of reaction
- High extensibility
- Possibility to adjust the speed and size of the reaction thanks to the accelerator
- High strength and resistance to chemicals
- Friendly to nature

USE

Injection work must be carried out by specialized companies with appropriate technical equipment. It is applied to building structures using pressure injection pumps for single-component materials via packers. The wells and the injected structure must be sufficiently moistened! To achieve maximum reaction speed, it is necessary to add 5-10% of PU Accelerator or PU Accelerator Fast, which are a necessary supplement.

For masonry grouting, we recommend using min. recommended amount of accelerator – 5%.

After finishing the injection work, rinse the pump and its accessories thoroughly with acetone or synthetic thinner. When handling PU HF300 raw material, use personal protective work equipment (safety glasses, gloves, clothing, etc.). If you get the substance on your skin, wash it immediately with soapy water.

TECHNICAL DATA

Color:	Brown
Type:	single component
Density:	± 1.05 kg/dm ³ (EN ISO 2811-1)
Viscosity:	± 215 mPa.s (Brookfield SP3 - 200 rpm) at 25°C
Response time:	22 - 95s (depending on the amount of water, accelerator and temperature and air pressure - see table)
Coefficient of expansion:	40-49 x (according to the amount of water, accelerator and temperature and air pressure - see table)
Durability:	24 months (unopened canister)
Storage:	between 5 and 30 °C, protect from frost, moisture and UV radiation
Temperature of use:	min. + 5 °C
Packaging:	Metal canisters of 20 kg each
Preventive safety measures:	see safety data sheet



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REACTION TIME

H100 ACC	5°C			15°C			25°C		
	Start	End		Start	End		Start	End	
5	18"	95"	40x	18"	78"	40x	14"	55"	49x
8	15"	60"	42x	14"	51"	42x	10"	43"	49x
10	15"	48"	42x	11"	41"	42x	8"	35"	49x

PACKAGING AND STORAGE

PU HF300 is packaged in 20 kg metal cans.

PU ACC is packaged in 2 kg plastic bottles.

PU HF300 is moisture sensitive and should be stored in a dry area at the temperature between 5°C and 30°C.

SAFETY INSTRUCTIONS

Read the technical and safety data sheets prior to commencement of the injection works. Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations. Read the relevant safety data sheets before use.

IMPORTANT

The producer guarantees the same quality of the product at the sale in the enclosed original packing. The conditions of use must be observed. The factors varying from the norm, as are for example the climatic conditions, substrate kind and condition, the use procedure, non-recommended mixtures and other factors that could restrict the effect. The producer doesn't accept any liabilities of this kind