

DESCRIPTION

PU INJECTION is a single component, low viscosity, closed cell injection resin that reacts with moisture and water. It is a special polyurethane based waterproofing material used to stop pressurized or non-pressure water leaking from cracks in concrete surfaces.

TYPICAL APPLICATIONS

- Foundations,
- Retaining walls,
- Cracked walls,
- Underground surfaces of garages and houses,
- Dams,
- Foundations and underground passages,
- Waste water and sewage systems,
- Warehouses,
- Filler layers and joints.

FEATURES AND ADVANTAGES

- Easy to apply.
- It has an effective performance in sealing cracks, voids and joints in concrete.
- Reaction time can be adjusted.
- Hydrophobic.
- Due to its low viscosity, it penetrates very well into capillary cracks.
- Solvent free.
- Prevents leakage by reacting with water.

APPLICATION PROCEDURE

• SURFACE PREPARATION

Before application, all materials and dust in the cracks should be cleaned. Cracks larger than 3mm should be covered with suitable repair materials. The locations of the packers (injectors) are determined according to the place of the leak. Packers are placed at an angle of 45 degrees. The packers should be nailed to a distance of half the thickness of the reinforced concrete. The distance between the packers can be 15 cm and 90 cm.

• PRIMING

If the cleaning process is done in the above-mentioned way and in a sufficient way, priming is not required.

• APPLICATION

PU INJ CATALYST must be mixed well beforehand. PU INJECTION is made ready for use by mixing with the determined amount of catalyst. The catalyst ratio should be determined in the application area according to the crack and leaking water and weather conditions. The catalyst can be used between %5 and %10. The application pressure varies between 14 and 200 bar. The application should be started from the first packer. The pressure is increased until the resin starts to overflow with low pressure. With the overflow of the resin, the other packer is switched to the next one. In the injection application, the resin injected from all packers will overflow from the leaking cracks in the reinforced concrete. After this process, the application is terminated. The consumption of PU INJECTION is the amount that the cracks and gaps must be filled completely.

APPLICATION REMARKS

- Not recommended for unstable surfaces.
- It is not used for waterproofing of swimming pools with chemically treated waters.

CONSUMPTION

- The consumption of PU INJECTION is the amount required to completely fill the cracks and gaps.

CLEANING

After the application, all tools should be cleaned with CLEVER 001.

PACKAGING AND COLOR

Beige transparent-yellow as a set in 25 kg + 2,5 kg metal packages.

STORAGE AND SHELF LIFE

The product can be stored for a maximum of 12 months in its unopened original package at temperatures between +5°C and +25°C. Opened product should be used as soon as possible.

PRECAUTIONS

The product should be used in well ventilated environments. The product should not be in contact with open fires. Smoking should not be allowed during application. Protective gloves and masks should be used for hands and eyes during application. If the material comes into contact with eyes, it should be washed immediately with sufficient water. For more detailed information, ask for the Safety Data Sheet (MSDS) from CLEVER POLYMERS technical department.

TECHNICAL DATA		
QUALIFICATION	METHOD	FEATURE
Coating Type	Clever Lab.	Polyurethane Injection Resin
Density	ASTM D 1475 / EN ISO 2811-1 (+20°C)	1,10 ± 0,04 gr / cm ³
Viscosity	ASTM D 2196-86 / EN ISO 3219 (+25°C)	200 cp
Gloss	Clever Lab.	Semi Gloss
Thinning	Clever Lab.	Not recommended
Solid Matter	Clever Lab.	100 %
Flash Point	Clever Lab.	+ 145 °C
Full Curing Time	Clever Lab.	2 to 4 Hours

* Viscosity measured at + 25°C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

PU INJ CATALYST

TECHNICAL DATA		
QUALIFICATION	METHOD	FEATURE
Color	Clever Lab.	Transparent-Yellow
Density	ASTM D 1475 / EN ISO 2811-1 (+20°C)	0,95 gr / cm ³
Viscosity	ASTM D 2196-86 / EN ISO 3219 (+25°C)	~ 15 cp
Flash Point	Clever Lab.	+145 °C

* Viscosity measured at +25°C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.



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