

CONJECT PUF 95

One Component Polyurethane Injection Foaming Resin

Description:

CONJECT PUF 95 is a single component, low viscosity, halogen free water reactive polyurethane injection resin designed to seal leaks and fill voids within concrete, racks and masonry structures. CONJECT PUF 95 had been formulated with a special mix of isocyanates, and a highly effective catalyst. When mixed with catalyst it can be pumped and it migrates through cracks, and below grade voids. As it comes in contact with water, CONJECT PUF 95 begins to react and expand to form a tough, semi flexible closed cell foam seal that cannot be penetrated by water.

Advantages:

- Forms a high density, semi-flexible foam.
- It has excellent waterstop effect.
- Does not shrink after curing.
- Expands up to 50 times ratio
- Forms a semi-flexible sealing with high strength in cracks & joints. Accepts movements of the concrete.
- The reaction can be controlled by varying the amount of catalyst.
- Excellent adhesive to concrete, metals etc.
- Very low viscosity resin, which allows to inject it into micro cracks.

Uses:

CONJECT PUF 95 is a high quality fast reacting PU FOAM, mainly used as a waterstop for active water leaks in following areas:

- Basement parking & underground concrete structures.
- Repairing leaks in concrete joints.
- Repairing humid and/or damp sections

- Waterproofing permeable grounds saturated with water.
- Waterproofing tunnels subject to water seepage through cracks or cold joints between ashlar.
- Waterproofing wells or hydraulic structures that leak water through working joints or cracks.
- Repairing cracks in dams, canals and crest gates, even under the water bed.

Instructions for Use:

Before adding the catalyst to the resin, drill holes on the sides of the cracks in order to fix the injections. The size of the holes should fit the diameter of the injectors that will be used. Expansion injectors with a non-return valve, can be easily fixed, by their rotation, to block them completely to the walls of the hole.

Before use, shake the catalyst well, then mix with the resin in a ratio between 3 to 5% by weight (in function of the desired reach on speed). The added percentage of catalyst has different reaction time. After mixing the resin and catalyst, the mixture has a potlife of approximately one hour. The mixture passes through the fixed packers into the structure that needs to be treated against leakage. When the resin comes in contact with water, it will form a waterproofing PU Foam.

Because of the low viscosity, the mixed resin will penetrate deep into the cracks and reacts with the water present to form a tough semirigid foam.

In the absence of water, CONJECT PUF 95 does not expand and continues to penetrate into the cracks. In case of treatment subject to strong water seepage, it is recommended to increase catalyst percentage to 10% in order to achieve a fast-setting rate.

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TECHNICAL PROPERTIES		
	Resin	Catalyst
Color	Brown	Transparent
Density @ 25°C	1.15 ± 0.03 Kg/ Ltr	0.98 ± 0.03 Kg/Ltr
Flashpoint	>150°C	>150°C
Viscosity @ 25°C	100-200 cp	10-20 cp
Free expansion ratio	40-60	

Reaction Time at 25°C		
Quantity of Catalyst	Start (Sec)	Complete (Sec)
3%	25	1'20"
4%	15	85
5%	10	70

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Standards:

- EN 1504-5

Packaging:

Standard Packing: 10 Ltr. Plastic drum.

Storage:

Keep the product in dry and covered under shed with a temperature between +10°C and +30°C. If stored properly CONJECT PUF 95 has a shelf life of 6 months.

Cleaning:

Clean the used tools with ARMOSOLVENT 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.

Precautions:

CONJECT PUF 95 is sensitive to humidity, it is recommended to use the full set once opened.

Health and Safety:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapor or spray mist.

FIRST AID:

Eyes:	In the event of accidental splashes, flush with warm water and seek medical advice.
Skin:	Wash skin thoroughly with soap and water
Inhalation:	Remove to fresh air, keep patient rested
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to CONJECT PUF 95 Material Safety Data Sheet.

MATEX Rev.05-0223

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