

CONJECT PUF 95

One Component Polyurethane Injection Foaming Resin

Description:

CONJECT PUF 95 is a single component, low viscosity, halogens 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.
- With its low viscosity, it is easy to inject in fine cracks.
- 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 well the catalyst, 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 had on pot life of approximately one hour. The mixture through the fixed packers into the structure that needs to be treated against leakage. When the resin contact to 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 treating subject to strong water seepage it is recommendation to increase it catalyst percent to 10% in order to achieve a fast setting rate.

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Packaging:

Standard Packing: 20 Kg Plastic drum.

TECHNICAL PROPERTIES		
	Resin	Catalyst
Color	Brown	Transparent
Density @ 25°C	1.15 Kg/ Ltr	0.98 Kg/Ltr
Flashpoint	>150°C	>150°C
Viscosity @ 25°C	10 Mpas	8 Mpas
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

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.

Storage:

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

Precautions:

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

Health and 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 CONJECT PUF 95 with sand and dispose according to the local regulations.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

