

Keminject PU

A Solvent-Free, Polyurethane Injection

Description	Keminject PU is a non-flammable, solvent-free, two-component polyurethane foaming injection material. It's a low-viscosity gel type, flexible gasket, and an effective barrier against water infiltration pressure or sealing. Once in contact with water, Keminject PU expands and cures to a closed-cell, flexible foam.
Where to use	Keminject PU is used for sealing and waterproofing joints, dynamic non-structural cracks, and fissures of concrete and other building materials and to prevent water migration. It reacts with moisture and water to form a flexible gasket and barrier against water leakage. The setting can be accelerated.
Advantages	<ul style="list-style-type: none"> • Cures to a tough, adhesive foam able to withstand varying thermal cycles and movement. • For permanent waterproofing. • Non-corrosive, Non-flammable. • Doesn't affect micro-organisms. • Completely neutral. • Cures under the presence of water. • Non-toxic and tasteless. • Fast reaction in contact with water. • Approved by potable water environment. • Ease of application.
Properties	
Density	1 ±0.12 gm/cm ³
Viscosity	270 cps @ 20 °C
Flash point	-13 °C
Gel Time	50 Sec @ 20 °C
Wet Tensile Strength	2 - 3.2 Kg/cm ²
Shrinkage	Non
It complies with ASTM C-1107, 579-94, C-1042 - 1994, C-1059-94	
Surface Preparation	<ul style="list-style-type: none"> • Clean the joints or cracks surface from debris and contaminants to establish the patterned substrate. • Active leaking cracks larger than 3 mm need to be sealed with an approved method.
Mixing	<ul style="list-style-type: none"> • A complete pack of (resin and hardener) should be mixed. • Mixing may be carried out manually or mechanically. • When a smooth, even consistency is achieved the Keminject PU is ready for use and should be placed well within the above mentioned gel time. • Packs have been designed to produce practical and economic volume. • Do not attempt to mix partial components.

Application	<ul style="list-style-type: none"> • Drill injection holes 16 mm hole and the angle of drilling is 45° to the surface the depth of the hole will be 1/2 the thickness of the concrete element and the spacing between injection ports will be 50 cm. Injection holes should be staggered from one side to the other. • Install injection ports. • Flush joints or cracks to remove debris and dust from drilling. • Inject the material at the lowest point in case of a vertical joint or crack or at the first port flushed for a horizontal joint or crack. • During the injection water will first flow from the crack. • Keep injection until the material appears at the next port. • Stop pumping and disconnect inject at the adjacent port. • Move to the next injection port and repeat the procedure. • Injection pressure will vary from (17-170 bar) depending on the width of the joint or crack and the thickness of the concrete. • After injection, the injection ports can be cut flush with the concrete surface or removed from the holes.
Packaging	<ul style="list-style-type: none"> • 5 Kg two-components (A & B) cans. • 10 Kg two-components (A & B) cans.
Theoretical coverage	1 ±0.12 gm/cm ³
Shelf life & Storage	Keminject PU has a shelf life of 6 months in a moisture-tight closed container.
Cleaning	All tools and injection pumps shall be immediately cleaned after use with a suitable cleaner.
Health and Safety	<ul style="list-style-type: none"> • Confined area must be well ventilated and no naked flame allow. • Contact with the skin should be avoided as certain sensitive skins may be attacked by contact with the resin occurs, the skin should be washed immediately with soap and water-not solvent. • Use goggles- gloves and a breathing mask when applying. • Eye splashes are to be washed with plenty of water. • If ingested seek medical advice.
Additional Information	<p>PROKEM provides the construction industry with a comprehensive range of construction chemicals and specialty products answering the queries of modern engineers for trouble free durable structure.</p> <p>PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction.</p> <p>PROKEM reserves the right to change the properties of its products.</p> <p>All orders are accepted subject to our current term of sale & delivery.</p> <p>Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.</p> <p>PROKEM extends technical services to include after-sales support to assist users in the proper handling of our products.</p>