

Product Data Sheet
Edition 07.2014
Identification No. GA - 11



KEMINJECT PU

A Solvent-Free, Polyurethane Injection

Description

KEMINJECT PU is a nonflammable, solvent-free, two components polyurethane foaming injection material. It's a low viscosity gel type, flexible gasket and an effective barrier against water infiltration pressure or by 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 of joints, dynamic non-structural cracks and fissures of concrete and other building materials and 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

KEMINJECT PU provides the following advantages :

- Cures to a tough, adhesive foam able to withstand varying thermal cycles and movement.
- For permanent waterproof.
- Non-corrosive, Non-flammable.
- Doesn't affect with micro-organisms.
- Completely neutral.
- Cures under 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 at 20°C
Flash point	-13°C
Gel Time	50 sec at 20°C
Wet Tensile Strength	2-3.2 kg/cm ²
Shrinkage	Non

How to use

Substrate preparation:

- Clean the joints or cracks surface from debris and contaminants to establish the pattern substrate .
- Active leaking cracks larger than 3mm need to be sealed with an approved method .

Mixing:

- 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 gel time of the **KEMINJECT PU**.
- Packs have been designed to produce practical and economic volume.
- Do not attempt to mix partial components.

Application:

- Drill injection holes 16 mm hole and the angle of drilling is 45° to the surface and the depth of the hole will be 1/2 the thickness of 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 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 adjacent port.
- Move to the next injection port and repeat procedure.

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- Injection pressure will vary from (17-170 bar) depending on the width of the joint or crack and the thickness of concrete.
- After injection, the injection ports can be cut flush with the concrete surface or removed out of the holes.

Cleaning:

All tools and injection pumps shall be immediately cleaned after use with a suitable cleaner.

Packaging:

5, 10 kg two component (a&b) cans.

Shelf life & Storage:

6 months in a moisture tight closed containers.

Health and Safety

- Confined area must be well ventilated and no naked flamed allowed. Contact with the skin should be avoided as certain sensitive skins may be attached by contact with the resin occurs, the skin should be washed immediately wit soap and water-not solvent.
- Use goggles- gloves and a breathing mask when applying.
- Eye splashes to be washed with plenty of water.
- If ingested seek medical advice.

Additional Information

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.

PROKEM designs tailor made products should there be critical application that requires specific properties rather than our main range. For our customer's satisfaction, **PROKEM** extends technical services to include after sales support to assist users in a proper handling of our products.