

# Cemseal PU-I

Low Viscosity Polyurethane Injection System

**cemseal**<sup>®</sup>  
Your Construction Chemical Partner

## The Product

**Cemseal PU-I** is a pressure injection system. It can be pumped into voids and joints in concrete which are wet or running with water, rapidly sealing the leaks in structures. The resin will harden rapidly in contact with water to form a closed-cell foam.

Concrete construction requires construction joints and cold joints. Concrete cracks is often which is inevitably recognized and experienced. The joints / cracks in concrete structures may cause serious problems of water leakage and seepage.

## Uses

- ◆ Bathrooms, toilets and kitchen
- ◆ Terraces, balconies and patios
- ◆ Flat roof, gutter and planter boxes
- ◆ Water tanks and swimming pools
- ◆ Retaining walls, basements and fountains
- ◆ Sewers and Sewage Plants
- ◆ Pipes, Culverts and tunnels

## Advantages

- ◆ A Grout for filling voids and cracks in concrete; particularly suitable for sealing under wet, running water conditions.
- ◆ Negative side application possible.
- ◆ Deep penetration into very small cracks.
- ◆ Foam increase in volume to fill cavities and voids.
- ◆ Good flexibility when cured.
- ◆ Variable reaction times.
- ◆ Can be used on structures in sea water.
- ◆ Suitable when cured for contact with food/beverages/drinking water.
- ◆ No solvents.

## Technical & Physical Data

|                       |  |
|-----------------------|--|
| Form                  | Brown Liquid   |
| Induction Time (Secs) | 30s @ 25°C   |
| Gel Time (Min/Secs)   | 2m 20s @ 25°C  |
| Density               | 1.05 ± 0.05 @ 25°C   |
| Corrosiveness         | Non-Corrosive  |
| Packaging (A+B)       | 20 kg/pail   |
| Shelf Life            | 9 months of kept in a dry cool sheltered place in the unopened original packaging. |

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## **Method of Statement**

- Substrate Preparation
- ◆ Clean the surface before the injection system. Sometimes the concrete surface is hidden under a surface of mineral deposits left from long-term water leakage / seepage.
- Drill Packers
- ◆ In order to inject the resin into the cracks / joints, it is necessary to install injection ports which called mechanical packers.
  - ◆ Pre-drill holes along the crack line at 45° to the surface into the crack.
  - ◆ Pre-drill the holes alternating from the left and right side of the crack line.
  - ◆ Blow out the cracks and pre-drilled holes with dry and oil-free compressed air.
- Install Packers
- ◆ Place the packers into the pre-drilled holes.
  - ◆ The top of the rubber sleeve is below the concrete surface.
  - ◆ If the packers can not be pushed into the hole, it should be tapped in.
  - ◆ Tighten the packers with a wrench as tight as necessary.
- Flush crack if necessary
- ◆ In some circumstances, it can be very useful to flush the crack with water to improve the subsequent penetration of Cemseal injection resin into thicker walls.
- Injection
- ◆ Fill Cemseal PU-I Injection Resin into suitable injection pump.
  - ◆ Fix the pump head to the packers.
  - ◆ The resin is then slowly pump in.
  - ◆ Allow it to cure for at least 1 hours before removing packers.

## **Safety**

Keep it away from the eyes, mouth and skin. Do not inhale vapours. The uncured mixture can irritation of the skin. Wear protection gloves and eye goggles while working. Skin contaminations should be immediately cleaned with a mix of water and 2% vinegar. The use of solvents must be avoided. If either of the components enters the eyes, wash immediately with running tap water. A doctor must be visit in all cases.

The empty containers may contain residues of the product and therefore should not be used for any purpose.

## **Limitations**

Minimum temperature for application and substrate : 5 °C.

## **Others Application**

To consult the local Cemseal's representative.

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| <b>First Aid</b>                   | In case of contact with eyes, skin or body wash immediately with clean fresh water or stand under shower and wash off. In case of inhaling of vapor or ingestion remove to fresh air and do not induce vomiting. <b>Obtain immediate medical treatment.</b>  |
| <b>Statement of Responsibility</b> | The technical information and application advice given in this Cemseal publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user, is responsible for checking the suitability of products for their intended use. |
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