

# Cemseal HPI

High Pressure Injection Pump

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

## The Product

Cemseal HPI is a one component high pressure injection pumps are ideal for repairing and reinforcing concrete structures.

The purpose of the pump is to ease the difficulties and troubles of manual work while carrying our concrete repair and reinforcing work.

## Uses

For all kinds of cracks and joints in concrete :

- ◆ Cold Joints
- ◆ Construction Joints
- ◆ Protecting Joints
- ◆ Wet / Dry Cracks

## Advantages

- ◆ Heavy Duty Usage
- ◆ Lightweight
- ◆ Easy to maintain & operate
- ◆ Single Component machine
- ◆ With Pressure Gauge monitoring
- ◆ Hopper Included
- ◆ Recommended for beginners and professional

Cemseal HPI-



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## Technical & Physical Data

Max. Pressure

>5,000psi

Voltage

220V

Weight

Cemseal HPI-1000 : 9kg

Cemseal HPI-2000 : 13kg

Recommended Packer

10mm to 13mm Diameter

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## METHOD OF STATEMENT

### PRE-TREATMENT WORK

#### For Concrete Leakage / Seepage using Cemseal PUI Resin Injection System

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.

#### For Concrete Crack (Dry) using Cemseal E300EPI Resin Injection System

The substrate must be sound, preferably dry, clean and free from oil and grease. All loose materials and laitance along the crack should be removed with suitable hand tools, such as needle guns, wire brushes or angle grinders.

### INJECTION APPLICATION

#### For Concrete Leakage / Seepage using Cemseal PUI Resin Injection System

- a. 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 at center of approximately 150mm. Blow out the cracks and pre-drilled holes with dry and oil-free compressed air. 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.
- b. 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.
- c. To fill the PU Injection Resin into a suitable injection pump. To fix the pump head to the packers. The resin is then slowly pump in. Continue procedure with subsequent packers until the whole length of the crack is filled.
- d. Allow it to cure for at least 1 hours before removing packers.

#### For Concrete Crack (Dry) using Cemseal E300EPI Resin Injection System

- a. Pre-drill holes along the crack and under 45° to the surface into the crack. Pre-drill the holes alternating from the left and right side of the crack at center of approximately 300mm. Blow out the cracks & the pre-drilled holes with dry and oil-free compressed air.
- b. The cracks are sealed with Epoxy Patching Resin applied in strips of minimum 50mm width and 2mm thickness along the length of the crack. Allow Epoxy Patching Resin to cure for minimum 8 hours. To ensure that the cracks are free from dust, the packers should be blown through in succession.
- c. Seal the crack and fix surface packers at 300mm center to be capped off as the resin appears.
- d. Fill The Epoxy Injection Resin into a suitable injection pump. Commence injection at the lowest point. Inject until the material begins to flow out at the next higher injection port. The first packer is then blanked off. Continue procedure with subsequent packers until the whole length of the crack is filled.
- e. The injection area can be patching back after 2 days

### SAFETY

- a. Do not attempt to operate this machine until you have read and understood. All safety precautions and operating instructions equipment and chemicals when used improperly can be dangerous.
- b. Keep it away from the eyes, mouth and skin. Do not inhale vapors. 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.
- c. To consult the local Cemseal's representative.

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#### **For Further Information**

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#### **First Aid**

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. **Obtain immediate medical treatment.**

#### **Statement of Responsibility**

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.

#### **Note**

Field service where provided, does not constitute supervisory responsibility. Suggestions made by Cemseal either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Cemseal are responsible for carrying out procedures appropriate to a specific application.

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