

Cemseal E300EPI

Two Components Epoxy Injection Resin System

cemseal[®]
Your Construction Chemical Partner

The Product

Cemseal E300EPI is a two component solvent-less, non pigmented, high strength epoxy adhesive resin compound with low viscosity for crack repair. The specially pre-reacted hardener reduce handling toxicity and water sensitivity. Formulated with a mix of resins of different viscosity it permit both penetration and crack filling on weak substrates to increase bond strength.

Uses

- ◆ Filling of voids and honeycombed concrete to restore the strength of the structure.
- ◆ Structural repair of cracked concrete by injection system.
- ◆ Repair and fill the small, hairline cracks in r.c. structures.
- ◆ Re-bonding of delaminated concrete screeds tiles and plasters.
- ◆ Injection of construction joints on pre-stressed concrete members at tendon couplings.
- ◆ Consolidation of friable rock or stone.

Advantages

- ◆ Pre-packed for accurate on-site mixing.
- ◆ Excellent adhesion to all sound and prepared substrates.
- ◆ Low-viscosity & penetrates rapidly into concrete cracks and capillaries.
- ◆ High compressive and tensile strength and can withstand high mechanical loading
- ◆ Resistant to a wide range of chemicals, water, seawater, waste water, grease, fuels, mineral oils, alkalis and dilute acids

Technical & Physical Data

Form	Pale yellow transparent free flowing liquid
Solids content	98%
Density	1.06 ± 0.05 @ 25°C
Compressive Strength	90.0 N/mm ²
Flexural strength	43 N/mm ²
Fully cured	7 days
Pot Life at 30°C	>15 min
Packaging (A+B)	5 kg set
Shelf Life	9 months of kept in a cool dry sheltered place

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Method of Statement

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|-----------------------|---|
| Substrate Preparation | <ul style="list-style-type: none">◆ The substrate to be treated must be sound, dry and free from any contaminants which will prevent good adhesion.◆ If necessary, the surface should be prepared by grit blasting. |
| Drill Packers | <ul style="list-style-type: none">◆ 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. |
| Adhesive Packer | <ul style="list-style-type: none">◆ If the crack is very fine, adhesive packers are more suitable.◆ Install and bond adhesive packers at centre of crack line. |
| Sealing Of Cracks | <ul style="list-style-type: none">◆ The cracks are sealed with Epoxy Filler applied in strips of minimum 50mm width and 2mm thickness along the length of the crack line.◆ Allow Epoxy Filler to cure for minimum 3 hours.◆ To ensure that the cracks are free from dust, the packers should be blown through in succession. |
| Mixing | <ul style="list-style-type: none">◆ Stir the individual components of Cemseal E300EPI thoroughly.◆ Pour both components into a mixing vessel and mix for 5 minutes using a slow-speed drill and paddle until a homogenous mixture is obtained.◆ Transfer the contents to a clean container and re-mix.◆ Use the product as quickly as possible after mixing. |
| Injection | <ul style="list-style-type: none">◆ Fill Cemseal E300EPI Injection Resin into suitable injection pump.◆ Planning is essential to avoid wastage.◆ Work out the amount that can be used within 10 minutes after mixing it.◆ On vertical substrate, allow start 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.◆ Allow it to cure for 24 hours before removing nipples. |

Limitations Minimum temperature for application and substrate : 15°C.

Others Application To consult the local Cemseal's representative.

For Further Information	Cemseal Industries Sdn Bhd (Company No. 884153-T) No. 9 & 11, Jalan Besi, Taman Sri Putri, 81300 Skudai, Johor, West Malaysia. Tel : 607-558 3320, Fax : 607-556 9127, E-mail : info@cemseal.com.my
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