

## CWC®SMART EPOCRETE 41 ULV

### Ultra Low Viscosity Solvent Free High Strength Injectable Epoxy Grouting Compound

#### Description

CWC®SMART EPOCRETE 41 ULV is two components (Component A –Resin, and Component B -Hardener) solvent free ultra-low viscosity free flowing, fast curing epoxy resin system.

#### Indicative Characteristics

Mix Ratio by wt. Part A:B	4:1
Color of mixed products	Light to Dark Amber
Pot life at 27°C minutes	35
Relative Density of mixed material, 30°C	1.08
Viscosity, cps at 30°C	160
Compressive Strength, N/mm <sup>2</sup> , 24 hours	51
7 days, at 30°C	76
Flexural Strength, N/mm <sup>2</sup> , 7days, 30°C	14
Chemical Resistance, Inorganic alkali, and acid solution (10%)	No change
Consumption per 5 kg pack	4.5 - 4.6 Litres

#### Domains of Application

- As an injection resin with good adhesion to dry concrete, mortar, stone, steel and wood.
- To fill and seal voids and cracks in structures such as bridges, industrial and residential buildings, e.g. columns, beams, foundations, walls, floors and water retaining structures.
- Can be used as penetrating concrete surface sealer for dust proofing due its ultra-low viscosity.

#### Method of Application

##### Surface Preparation

The area to be treated should be properly cleaned to remove dust, laitance, grease, fungus etc. As a guideline, injection nipples are fixed in a square grid 500 mm c/c depending on the cracks and nature of concrete. If required for effective treatment, the grid may be reduced or increased. Before the injection starts all cracks and crevices are to be sealed with EPOCRETE 41 ULV mortar (Resin- 2part, Hardener -0.5 part and fine silica sand 13 to 18 part) or any other suitable quick setting mortar. This mortar can also be used for surface sealing for other porous areas.

##### Mixing

Mix the entire component - B (Hardener) with Component - A (Resin). Mix for 2-3 minutes to uniform colour without any streak using a drill and paddle (speed approx. 250 - 400 R.P.M.) mixer so as to avoid any entrapped air. Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 2-3 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.

##### Application

In case of application by injection method, the grout mixture should be pumped by a positive displacement plunger type pump. Inject at slow and even pressure through the injecting nipples till refusal or when the grout oozes out from the nipple immediately adjacent to or above the one being injected. The mixed material can also be applied by simple pouring the material through the repairable cracks or both the surfaces to be joined. The excess material must be removed with a sharp scraper or a concrete finishing stone for a smooth and flat finish.

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#### Advantages

- Designed especially for pressure injection into concrete for carrying structural repairs.
- Due to its low viscosity, it can be injected into extremely fine cracks also.
- The cured resin possesses high mechanical strength, excellent adhesion, practically no shrinkage and chemical resistance.
- Fine cracks, joints and small voids can be successfully sealed with **CWC®SMART EPOCRETE 41 ULV**.
- Although **CWC®SMART EPOCRETE 41 ULV** has a very high strength, the cured material is not brittle and remains a slight flexible in nature.

#### Shelf Life & Storage

12 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5°C to 40°C.

#### Packing

5kg, Pack- A (Resin): 4kg, Pack-B (Hardener):1kg

#### Precautions

- Store the material in shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerization starts.
- Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 2-3 minutes to enable entrapped air, if any, to escape from the mix and then use as quickly as possible.
- Should not be mixed multiple packs at a time. This may result drastic reduction of pot life and material may gel quickly before injection process.

Before use, refer to the Material Safety Data Sheet.

The MSDS is available on [www.cwcchemical.in](http://www.cwcchemical.in)

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