

# CWC®SMART EPOCRETE 41 LV

## Low Viscosity Injectable Epoxy Grouting Compound

### Description

**CWC®SMART EPOCRETE 41 LV** 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	40
Relative Density of mixed material, 30°C	1.09
Viscosity, cps at 30°C	270
Compressive Strength, N/mm <sup>2</sup> , 24 hours	53
7 days, at 30°C	75
Flexural Strength, N/mm <sup>2</sup> , 7days, 30°C	13
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.
- Grouting of machine base plate, bridge bearing bases, anchoring of bolts, etc.

### Method of Application

#### Surface Preparation

The area to be treated should be properly cleaned to remove dust, laitance, grease, fungus etc. Injection nipples are fixed in a square grid maximum 500 mm c/c depending on the cracks and nature of concrete. If required for effective treatment, the grid may be reduced. Before the injection starts all cracks and crevices are to be sealed with **CWC®SMART EPOCRETE 41 LV** mortar (Resin- 2part, Hardener -0.5 part and fine silica sand 12 to 14 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 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 pockets or repairable cracks or both the surfaces to be joined. The excess material must be removed with a sharp scraper or concrete finishing tools to a smooth and flat finish. In case of application (as concrete sealer) by brush or roller, the mixed mixture should be painted (by a brush or roller) for minimum two coats. The second coat of painting will be done after proper air curing of first coat. Preferably it should be done after 8 hours of application of first coat.

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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 LV**.
- Although **CWC®SMART EPOCRETE 41 LV** 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)

#### Regional Offices :

##### Mumbai :

Office No - 616/617, J K Chambers  
Sec-17, Vashi, Navi Mumbai-400703  
Maharashtra, INDIA.  
091 9920791030

##### Chennai :

Plot No.3/86-E, Ground Floor  
AIEMA Road, Ambattur Industrial Estate  
Chennai – 600058 Tamil Nadu, India  
091 8939820144  
[www.cwcchemicals.com](http://www.cwcchemicals.com),  
[info@cwchemicals.com](mailto:info@cwchemicals.com)