

# CWC®SMART EPOCRETE 2115

## High Strength Epoxy Mortar

### Description

**CWC®SMART EPOCRETE 2115** is three components solvent free, fast curing, high strength epoxy mortar.

**Pack –A: Base, Pack –B: Hardener, Pack-C: Graded Filler.**

### Indicative Characteristics

Mixing Ratio (Pack A: B:C), by wt.	2: 1:15
Specific Gravity at 30°C	1.95-2.15
Pot life, minutes, 30°C	>30 minutes
Comp. Strength, 14 days, MPa	> 70
Tensile Strength, N/mm <sup>2</sup> , 14 days	15 (Minimum)
Flexural Strength, N/mm <sup>2</sup> , 14 days	20 (Minimum)
Shrinkage	Non-shrink
Chemical Resistance	Unaffected by a wide range of Chemicals, Oils etc.
Water absorption, ASTM D 570	Passes Test (Less than 1%)

### Domains of Application

The cured resin possesses high mechanical strength, excellent adhesion, practically no shrinkage and a chemical resistance properties which is used as bedding or under filling mortar, anchoring of bolts, rebar, dowel bar, pocket grouting or to repair horizontal concrete surfaces such as Industrial Floors, Kerb stones, Joint arises in the Highways, Bridge Decks and Concrete Runways.

### Method of Application

#### Surface Preparation

The area to be treated should be properly cleaned to remove the dust, laitance, grease, fungus etc. To get better adhesion, apply a bond coat of **CWC®SMARTCOTE PRIMER** before application of **CWC®SMART EPOCRETE 2115** mortar.

#### Mixing

Mix all the Component - B (Hardener) with Component - A (Resin). Leave the thoroughly mixed materials to stand for 2-3 minutes to enable entrapped air to escape from the mix. Add Component - C (Special Aggregate) and again mix well using a drill and paddle (maximum 500 R.P.M.) or manually. Mix only sufficient material for immediate requirement. and use as quickly as possible, within its pot life.

#### Application

The product shall be spread by steel trowel to the required thickness. The entire mixed material should be placed on to the **primed surface (use CWC®SMARTCOTE PRIMER)** and spread slowly and evenly when the primed surface is still slightly tacky. Material shall be tamped with a wooden /steel float to get maximum compaction after spreading of **CWC®SMART EPOCRETE 2115**. While application, the substrate temperature should be at least 5°C but not above 40°C. Ensure all existing expansion joints are continued through the **CWC®SMART EPOCRETE 2115**.

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#### Advantages

- For carrying out structural repairs it can be filled into concrete/mortar voids/pockets
- Cured resin possesses high mechanical strength, excellent adhesion, non - shrinking properties and a chemical resistance properties.
- Can be used as a Epoxy Mastic.
- Although **CWC®SMART EPOCRETE 2115** has a high strength, the cured material is not brittle and retains a slight flexible nature.
- It is supplied in pre-measured quantities of component-A (Resin), component-B (Hardener) and component-C (Special Aggregate) according to the mixing proportion.

#### 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

18 kg kit.

#### Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

#### Precautions

- Store the material at the 5° to 40°C temperature range 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 5-8 minutes for induction reaction followed by re-mixing and then use as quickly as possible.
  - Do not mix large quantity at a time; this may lead shorter pot life. Use the mixed material within the 10-20 minutes after mixing to avoid gelling.
  - Application temperature must be 3°C above the dew point but not more than 40°C.
  - Do not apply on wet surface though bond strength of slightly damp concrete surface is good.
- 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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