



## Description

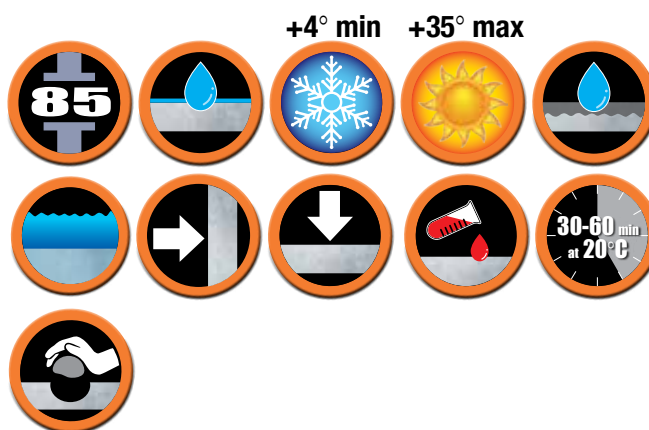
ChemMortar eA is a convenient to use two part epoxy resin and silica sand filled repair mortar that is high strength and solvent free. It is a non slump, pliable putty that is ideally suited for construction and concrete repair work.

## Typical Uses:

- Patching and forming damaged precast and insitu concrete
- Patching damaged concrete floors, tanks and pipes.
- Patching of concrete floors under heavy load or impact.
- Bonding concrete blocks, bricks, paving
- Fabrication of concrete pipe intersections, risers etc
- Underwater repair applications

## Features & Benefits:

- Easy to use 1:1 ratio by weight
- Excellent adhesion to concrete, metal and most porous surfaces
- 100% solids epoxy – solvent free, no VOC
- No shrinkage once cured
- Sag resistant – high build consistency, vertical and overhead work
- Tolerant to moisture before, during, and after cure
- Good chemical resistance for long-term protection
- High abrasion and vibration resistance





## Surface Preparation

Concrete must have a minimum of 7 days cure

Surface must be clean, sound, dry and free from any loose coatings/particles or surface contaminants such as grease, oil, chemicals, paint, rust or curing membranes unless otherwise stated in the data sheets.

We suggest captive shot blast, diamond grind or scabble to expose clean sound surface.

In harsh environments any exposed reinforcing may require a pre treatment

Steel must be blast cleaned and thoroughly prepared to acceptable standards.

## Mixing Ratio

Product is mixed by 1 part hardener to 1 part resin by weight.

Thoroughly mix the epoxy resin and hardener by trowel blending on a flat surface or by hand mixing (kneading) using nitrile gloves. When thoroughly blended, material will be a uniform streak free grey colour. Larger volumes can be mixed using a mechanical mixer.

## Application Method

Pack by gloved hand (nitrile gloves) or trowel onto area or cavity to be filled to the desired thickness. Ensure epoxy is forced well into the substrate surface to ensure good contact with the host surface. Avoid air entrapment (voids). Smooth off with a steel trowel and if required, lightly moisten surface only to aid finish.

To avoid potential shrinkage caused by exotherm the maximum layer thickness per application is 40mm. Some repairs may require the use of formwork on one side to assist application i.e. corners or large applications.

## Limitations

Will change colour with long term exposure to sunlight. Do not finish using solvent. Do not apply below 4°C or above 35°C. Avoid skin contact.

## Coverage

1L covers 1m<sup>2</sup> at 1.0mm thickness.

Actual coverage will depend on wastage and surface profile.

## Clean Up

Clean uncured material from equipment using xylene solvent. Cured material can only be removed by mechanical means.

## Colour

Grey /Green.

## Storage /Shelf Life

Keep in tightly sealed original containers in a cool place. Do not store near boilers or other sources of heat. Do not store in direct sunlight. Tightly sealed containers will store in excess of 12 months. Use older material first.

## Health & Safety

Do not discard into the water system

Wear protective nitrile gloves

Wear eye/face protection.

Do not breathe vapours.

Wash hands thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoid release to the environment.

Collect spillage.

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation persists: Get medical attention.

**IF ON SKIN:** Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. IF exposed or concerned: Get medical attention.

## Packaging

ChemMortar eA 2L	EPCMEA-2L
ChemMortar eA 8L	EPCMEA-8L
ChemMortar eA 20L	EPCMEA-20L

## General Properties

Shelf Life	1 year
Appearance of Hardener	Dark grey colour thick paste
Appearance of Resin	Cream coloured thick paste
Mixing proportions by weight	1 Hardener to 1 Resin
Solids content	100%
Tensile strength	15 MPa
Compressive strength	85 MPa*
Flexural strength	22 MPa**
Application Temperature	+4°C to +35°C
Work Time	30-60 @20°C
Cure Time	7 days
Density	1.9kg/L

\*Tested to NZS 3112 Part 2:1986; section 4, 6 (ASTM C39/C39M-09)

\*\*Tested to NZS 3112 Part 2:1986; section 7 (ASTM C39/C78-09)