

# Eucocrete HBM

Thixotropic High Build Repair, Construction & Waterproofing Mortar

## PRODUCT DESCRIPTION

Eucocrete HBM is a high build thixotropic synthetic fibre reinforced cement based rheoplastic and non-segregating mortar. Eucocrete HBM is a chemical resistant compound of high strength designed to protect embedded steel reinforcement and repair damaged or spalling vertical, overhead and horizontal concrete surfaces.

## USAGE/PURPOSE

Eucocrete HBM is used for the structural repair of concrete including:

- Water treatment and sewage facilities
- Marine structures
- Bridges
- Tunnels, pipes, outfalls and all below grade structures especially in harsh ground conditions
- Walls, cooling towers chimneys and other concrete repair applications

## FEATURES & BENEFITS

- Can be applied 10mm-90mm in a single layer thickness, even in an overhead application
- Overhead, vertical and horizontal applicable in enclosed or open environments, wet or dry conditions
- Excellent workability
- Shrinkage compensated
- High early and ultimate strength
- Waterproof, highly impermeable
- No added chlorides
- Excellent abrasion resistance and durability
- High freeze/thaw, carbonation and sulphate resistance
- Life span greater than 10 years if applied correctly

## PACKAGING

20kg Bag

## COLOUR

Grey powder

## SHELF LIFE

12 months when stored as recommended in original unopened packaging.



## STORAGE

Store in original, undamaged packaging in a clean, dry, protected location.

## COVERAGE /YIELD

Approximately 10.5 litres / 20 kg bag

## SUBSTRATE PREPARATION

- Totally remove any weak, spalling, or unconsolidated concrete and clean surface. Any existing coating or material which may contribute to bonding or corrosion issues shall be totally removed.
- Corroded steel must be fully exposed and cleaned. A minimum of 20mm breakout around the exposed steel must be achieved. Rust, loose material and other contaminants which may contribute to bonding or corrosion issues shall be totally removed.
- To provide maximum bond and to avoid feather edging, a minimum saw cut edge depth of 10mm is to be achieved on all edges of the repair area.
- Soak the repair area with clean water and thoroughly remove any excess water. The area shall be puddle free and without a glistening appearance.

## TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	TYPICAL VALUES
Determination of compressive strength	UNE-EN 12190:1999	57.6 N/mm <sup>2</sup> (Class R4)
Bond strength by pull-off (Without primer (28 days))	UNE-EN 1542:1999	3.4 MPa (Cohesive Failure in Mortar)
Bond strength by pull-off (With primer (28 days))	UNE-EN 1542:1999	3.5 MPa (Cohesive Failure in Mortar)
Shrinkage	UNE-EN 12617-4:2002. Controlled movements method	3.5 MPa
Expansion	UNE-EN 12617-4:2002. Controlled movements method	3.4 MPa
Carbonation Resistance	UNE-EN 13295:2005	Dk ≤ reference concrete MC (0.45)
Elastic Modulus	UNE-EN 13412:2008	23.8 GPa
Chloride ion content	UNE-EN 1015-17:2000	<0.01%
Capillary absorption	UNE-EN 13057:2002	0.2 kg/(m <sup>2</sup> x h <sup>0.5</sup> )
Coefficient of thermal expansion	UNE-EN 1770:1990	14.2 µm/m °C
Working time at ambient (21°C)		30 Minutes

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### STEEL REINFORCEMENT PRIMING

Apply an unbroken coat of Eucocrete Zincrich Primer onto and totally encapsulating the steel, and allow to dry. If any uncertainty exists with the first unbroken coat, a second coat may be applied. Again, the second coat must be allowed to dry.

### SUBSTRATE PRIMING

Dependent on substrate condition, the clean damp substrate can be primed with a generous coat of Euoweld 2.0, to provide a damp but puddle free and non-glistening appearance prior to application of Eucocrete HBM.

### MIXING INSTRUCTIONS

- ❑ Place the minimum required amount of clean water into a clean mixing bucket.
- ❑ While mixing slowly, gradually add Eucocrete HBM. If necessary, add additional clean water until a mix of the desired workability is obtained.
- ❑ Once the desired consistency is obtained, mix product for a further 2 – 4 minutes. The working time for Eucocrete HBM is 30 minutes.
- ❑ Normal clean water required is 2.5 – 3.2 litres per 20kg bag of Eucocrete HBM.
- ❑ Low shear mechanical mixer is suitable.
- ❑ It is highly recommended to mix the full 20kg bag of Eucocrete HBM for all applications.

### APPLICATION

Once the substrate has been prepared, apply the mixed Eucocrete HBM by hand, trowel or wet mix spray. The mortar must be pressed and compacted firmly on to the substrate to ensure all voids are filled, paying close attention to compacting behind all prepared steel reinforcement.

### FINISHING

When Eucocrete HBM has stiffened, the product can be finished off. Steel trowels, plastic or wooden floats can be used during the finishing process, depending on the desired effect required.

### CURING

To achieve the optimum result, cover the surface with a polythene sheet taping down the edges. In higher than normal ambient conditions, an approved curing compound such as Evencure AC is to be applied immediately after finishing.

### HEALTH & SAFETY PRECAUTIONS

The Safety Data Sheet (SDS) must be read and understood prior to use.

### TECHNICAL SERVICE

Tremco CPG Australia Pty Ltd has a team of Representatives who provide assistance in the selection and specification of products. For more detailed information or service and advice, call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

### GUARANTEE/WARRANTY

Tremco CPG Australia Pty Ltd products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with Tremco CPG Australia written instructions and (b) in any application recommended by Tremco CPG Australia, but which is proved to be defective, will be replaced free of charge.

Any information provided by Tremco CPG Australia in this document in relation to Tremco CPG Australia's goods or their use is given in good faith and is believed by Tremco CPG Australia to be appropriate and reliable. However, the information is provided as a guide only, as the actual use and application will vary with application conditions which are beyond our control. Tremco CPG Australia makes no representation, guarantee or warranty relating to the accuracy or reliability of the information and assumes no obligation or liability in connection with the information. To the extent permitted by law, all warranties, expressed or implied are excluded.

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