

PRODUCT DESCRIPTION

Eucocrete RM is a medium-weight structural repair mortar supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent repair mortar. It is based on Portland cements, graded aggregates, lightweight fillers and chemical additives which provide a mortar with good handling characteristics while minimising water demand.

USAGE/PURPOSE

Eucocrete RM is used for the reinstatement of large areas of reinforced concrete where low permeability and low shrinkage characteristics are required and where higher compressive strength is an important consideration. Eucocrete RM has been engineered for the repair of columns and beams. Its relatively low fresh wet density makes it also suitable for soffits and other overhead repair work. The mortar can also be used for small, localized patch repairs.

FEATURES & BENEFITS

- Meets the requirements of EN1504-3 Class R3
- It can be applied to vertical concrete patches up to 40 mm deep
- Suitable for use with Euclid Sentinel Anodes
- Shrinkage compensated
- Compatible with concrete strength in the range of 30 to 45 MPa

PACKAGING

20kg Bag

APPEARANCE

Grey powder

SHELF LIFE

12 months when stored as recommended in original unopened packaging.

STORAGE

Store in original, undamaged packaging in clean, dry, protected area.

COVERAGE/YIELD

Approximately 12 litres / 20 kg bag



SURFACE 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 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.

REINFORCING STEEL PRIMING

Apply one full coat of Eucocrete Zincrich and allow to dry before continuing. If any doubt exists about having achieved an unbroken coating, a second application should be made and, again, allowed to dry before continuing.

TYPICAL PHYSICAL PROPERTIES

PROPERTY		TEST METHOD	TYPICAL VALUES
Determination of compressive strength	24 Hours	UNE-EN 12190:1999	31.4 MPa
	7 Days		36.3 MPa
	28 Days		44.5 MPa
Measurement of bond strength by pull-off	Without Primer	UNE-EN 1542:1999	3.4 MPa
	With Primer		3.6 MPa
Determination of retraction and expansion	Shrinkage	UNE-EN 12617-4:2002 Controlled movements method	3.3 MPa
	Expansion		2.3 MPa
Determination of resistance to carbonation		UNE-EN 13295:2005	Dk ≤ reference concrete MC (0.45)
Determination of the module of elasticity in compression		UNE-EN 13412:2008	19.7 GPa
Chloride ion content		UNE-EN 1015-17:2000	<0.01%
Determination of resistance of capillary absorption		UNE-EN 13057:2002	0.3 kg/ (m ² x h0.5)
Determination of the coefficient of thermal expansion		UNE-EN 1770:1990	9.9 µm/m °C

SUBSTRATE PRIMING

Dependent on substrate condition, the clean, damp substrate can be primed with a generous coat of Eucocrete Activator, to provide a damp but puddle free and non glistening appearance prior to application of Eucocrete RM. More than one coat of Eucocrete Activator may be required.

MIXING INSTRUCTIONS

- ❑ Place the minimum required amount of clean water into a clean mixing bucket.
- ❑ While mixing slowly, gradually add Eucocrete RM. 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.
- ❑ Normal clean water required is 1.8 to 2.1 litres per 20kg bag of Eucocrete RM.
- ❑ Low shear mechanical mixer is suitable.
- ❑ It is highly recommended to mix the full 20kg bag of Eucocrete RM for all applications.

APPLICATION

- ❑ Once the substrate has been prepared, apply the mixed Eucocrete RM by hand or trowel. 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.
- ❑ Please consult with a Tremco Technical Sales Representative regarding the negative application detail on all joints & floor to wall junctions.

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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