PERFORMANCE SPECIFICATION FOR

EVERCRETE RAPID-SETTING REPAIR MORTAR (RRM)

RAPID-SETTING REPAIR MORTAR WITH

SHRINKAGE COMPENSATION

1. **PREAMBLE**
   Evercrete RRM is a high quality pre-mixed, shrinkage-compensated rapid-setting repair concrete. It mixes with water to produce a good consistency, high strength, free-flowing repair concrete. The low water demand ensures high early strength for reinstatement of concrete elements.

2. **USES**
   - Is specially formulated for emergency reinstatement of damaged or deteriorated concrete.
   - For internal and external application.
   - The fast setting and high strength abilities are best suitable for airport runways, railroads, aprons, and heavy traffic locations where downtime is critical.
   - For both vertical and overhead applications with the use of formwork.
   - Generally can be applied at 50mm for normal thickness or up to 250mm with addition of graded aggregate.
   - It is recommended to use 10mm aggregate if aggregate is required.

3. **FEATURES AND BENEFITS**
   - Rapid Set
   - Good bonding to substrate
   - High early and ultimate strength
   - Extremely low VOCs and heavy metals
   - Low shrinkage

4. TECHNICAL DATA

Product Consistency	Trowellable
Compressive Strength at 2 hour	>15 MPa
Compressive Strength 1 day	>30 MPa
Compressive Strength at 28 days	>60 MPa
Setting time: Initial	40 minutes
Setting time: Final	50 minutes
Traffic Time: for vehicles	2 hours
Traffic Time: for pedestrian	1 hour
Pot Life at 25°C	25 minutes
Typical Mixing Water	Flowable: 3.5 – 4.1 L Trowable: 2.5 – 3.5 L
Wet Density	2200 kg/m3
Yield	13 L
Packaging	25 kg / bag
Shelf Life	12 months

Note: The above are typical laboratory test results and can vary slightly depending on ambient and substrate conditions during application.

Standard

Density: According to BS 4551
Compressive Strength Test: According to BS 6319: Part 3
Setting Time: According to ASTM C953-06

5. APPLICATION

5.1. Substrate Preparation

Break out the repair area and saw cut the perimeter at right to the face of the concrete to a depth of 20mm to avoid feather edges.

Expose and remove all loose rust from corroded reinforcement. Where required, apply cement slurry primer to the cleaned reinforcement and allow to dry.

Concrete substrate should be soaked with potable water to saturated surface at dry conditions, and excess water should be removed.

The repair mortar should be applied onto the primed area, if preferred, while the primer becomes tacky.

5.2. Mixing and Installation

Mix one bag of Evercrete Rapid-Setting Repair Mortar (RRM) dry powder with specific amount of portable water depending on the desired consistency.

Mechanical mixing with slow speed drill fitted with a suitable paddle is recommended.

The powder should be slowly added to the required amount of water and mixed for about 5 minutes or until a lump-free homogeneous is achieved.

The repair mortar should be placed within 10 minutes of mixing to ensure its fluidity.

The mortar can normally be applied up to 50mm for a single application or 250mm with proper graded aggregates.

6. STORAGE AND PACKING

Evercrete RRM is delivered in 25 kg bag. Storage life is 12 months if the product is kept in a dry place with its original unopened bags.

Direct Sunlight must be avoided and protected from rainfall.

7. HEALTH AND SAFETY

Recommend to wear NIOSH approved or equivalent particulate face mask when mixing the material.

Material is alkaline in nature and can cause irritations to persons with sensitive skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective gloves and masks while handling the product. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. This product is non-toxic and is not flammable.

Keep out of reach of children.

8. REMARKS

Because it is not possible to give specific instructions for various site conditions or to control the applications, the information on this Product Specification is for general guidance only and we reserve the right to modify the information detailed in this Product Specification.