

# REPCON FC

## SINGLE COMPONENT POLYMER MODIFIED CEMENTITIOUS FAIRING COAT



### DESCRIPTION

**REPCON FC** cementitious fairing coat is supplied as a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly consistent cementitious fairing mortar. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives to provide a material with good handling characteristics while minimizing water demand. The product exhibits excellent thermal compatibility with concrete and is fully compatible with other mortars and coatings.

### FEATURES / BENEFITS

- Excellent bond to the concrete substrate.
- Pre-blended to overcome site-batched variations only the site addition of clean
- Contains no chloride admixtures.

### BASIC USES

**REPCON FC** cementitious fairing coat is designed for vertical and overhead use to produce a fair-faced appearance to concrete surfaces or masonry surfaces in readiness to receive a protective/ decorative coating. Surface imperfections up to 3 mm in depth can be filled with the scrape coat application. Voids of greater depth should be separately filled as a prior operation, again limiting the material thickness to 3 mm. However, **REPCON FC** can be used as a blow hole filler up to 10 mm deep.

**REPCON FC** can be used independently to infill surface imperfections and voids or to render large sections of concrete, brickwork or masonry at up to 3 mm thickness. It can also be used in association with other mortars. Under normal conditions, the product does not require an independent primer or curing membrane.

### SPECIFICATION CLAUSE

Fairing Coat The fairing coat shall be **REPCON FC**, a single component polymer modified cement based blend of powders to which only the site addition of clean water shall be permitted. The material shall be capable of use without independent priming and curing systems

### TECHNICAL INFORMATION

The following results were obtained at a water: powder ratio of 0.24 and temperatures of 20°C and 35°C.

Properties	Typical Result	Test Method
Coefficient of Thermal Expansion @ 21°C	6.4 x10-6/°C	ASTM C 531-18
Linear Shrinkage	-0.022	ASTM C 531-18
Working Life	Approx. 45 mins @ 20°C Approx. 20 mins @ 35°C	
Setting Time	1-2 Hours @ 20°C 30 mins-1hours @ 35°C	ASTM C 191-19
Fresh Wet Density	Approx. 200 kg/ m <sup>2</sup>	
Compressive Strength @ 23°C	1 day, 24. 8 MPa 7 days, 37.4 MPa 28 days, 45.7 MPa	ASTM C 109/ C109M-20b
Flexural Strength @ 23°C	7 days, 3.9MPa 28 days, 7 MPa	ASTM C 580-18
Slant Shear Bond Strength	28 days, 12 MPa	ASTM C 882/ C882M-20

**NOTE :** Working life and setting time will vary dependent on ambient and substrate temperature.

**Shelf Life** - 12 months when stored at 25°C in the original unopened bags.

<b>COVERAGE</b>	REPCON FC approx. covers 5.0 m <sup>2</sup> at 3 mm thickness for 25kg bag.
<b>PACKAGING</b>	REPCON FC is supplied in 25 Kg. bags.

## DIRECTIONS FOR USE

### Surface Preparation

Clean the surface and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposits or algae. Roughen the surface to remove any laitance and expose the fine aggregate by light scabbling or grit blasting.

Oil and grease deposits should be removed by steam cleaning, detergent scrubbing or the use of a proprietary degreaser. The effectiveness of decontamination should then be assessed by a pull-off test. Repair mortars require no additional preparation prior to the application of **REPCON FC**

### Quality Statement

CMCI manufactures its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no warranty and or responsibility is assumed on the performance of work completion executed with use of our products.

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