

# EPO CEMENT PLAST C

Polymer Modified Cementitious Coarse Base Coat and Finish Mortar



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Ver 01/22

## DESCRIPTION

**EPO CEMENT PLAST C** is a cementitious polymer modified single component mortar, based on a blend of Portland cements, graded fine and coarse silica sands, water reducing agents and compatible water resistant polymers. The product is designed to give good adhesion and cohesion in plastic states and low water requirement resulting in low porosity and long durability.

## USES

**EPO CEMENT PLAST C** is designed for application to minor imperfections in concrete and masonry surfaces. It is suitable for application in the range of 5 mm to 15 mm, can be used in the following situations:

- As a rush coat for fair faced concrete
- Used as coarse base coat before plastering on smooth surfaces.
- Filling honeycombs in precast units prior to over coating
- General re-profiling over large area in the range of 5 mm to 15 mm in multistep.
- Suitable to use in marine structures.

## ADVANTAGES

**Easy to use:** trowel applied. Workability retained for approximately 90 minutes.

**Constant quality:** Factory controlled pre-packed material eliminated site batching variations.

**Adhesion:** Excellent to sound concrete substrates and steel.

**Chloride free:** Excellent strength development without the use of chloride.

**Water resistance:** Water and weather resistant.

## PRODUCT DATA

<b>Form</b>	Powder
<b>Colour</b>	Grey
<b>Packing</b>	40Kg Kraft bag
<b>Layer Thickness</b>	Rush coat: 3 - 5mm in one layer
	Coarse base coat: 5-10mm in one layer Maximum: 15mm in multiple layer
<b>Consumption</b>	1.6 Kg/M <sup>2</sup> for 1.0 mm thickness
<b>Storage</b>	12 months, without opening the packing

## TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
<b>Mortar Consistency</b> (Water Ltr/Powder Kg)	For coarse base coat	8 Ltr/40Kg
	For rush coat	13 Ltr/40Kg
<b>Workability</b>	DIN 18555-PART-8	210 ± 30 min
<b>Density</b>	DIN 18555 PART 2	1.80 ± 0.10 Kg/Ltr
<b>Bond Strength/Pull off Adhesion</b> 7 Days	ASTM D 4541	> 7 kN
<b>Compressive Strength</b> 7 days 28 days	ASTM C 109	> 18 MPa
		> 25 MPa



## PERFORMANCE STANDARD

**EPO CEMENT PLAST C** meets the performance requirements of **ASTM C 109** & **ASTM D 4541**.

## INSTRUCTION FOR USE

### PREPARATION

Clean the surface and remove any dust, unsound material, plaster, oil, paint, grease, corrosion deposit or algae. Roughen the surface to remove any laitance and expose the fine aggregates by light scrubbing or grit-blasting.

Oil and grease deposit should be removed by steam cleaning, detergent scrubbing or the use of proprietary degreaser. The effectiveness of decontamination should then be assessed by pull-off test.

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The cleaned areas should be blown cleaned with oil free compressed air before continuing. All prepared areas should be thoroughly soaked with clean water immediately prior to the application of **EPO CEMENT PLAST C**. Any residual surface water should be removed prior to commencement.

## MIXING-SMALL QUANTITIES

Care should be taken to ensure the **EPO CEMENT PLAST C** is thoroughly mixed. Small quantities (up to 5Kg) can be mixed using a suitable mixing drum or bucket. Greater quantities should be mixed using a forced-action mixer. Mixing in suitably sized drum using an approved spiral paddle attached to an approved slow speed (400/500 rpm) heavy-duty drill is acceptable.

If mixing small quantities by hand, **EPO CEMENT PLAST C** should be premeasured by weight. Take 4 Part (by weight) of **EPO CEMENT PLAST C** powder to one Part (by weight) of potable water, this should be mixed vigorously until fully homogeneous.

## MIXING-LARGE VOLUMES

For larger volumes, place  $8 \pm 0.8$  Liters of cool potable water into the mixer, and with the machine operation, add one full 40 Kg bag of **EPO CEMENT PLAST C** and mix continuously for 3 to 5 minutes until fully homogenous.

Water addition may vary slightly according to both the ambient temperature and desired consistency of the mix, but it should not exceed 8.8 Liters.

For additional anti-dusting, or enhanced performance properties, add 1 Kg of **EPO LATEX SBR** to the gauging water until the desired consistency is achieved.

For rush coat,  $13 \pm 0.5$  Liters of water to be used

**Note:** In all cases **EPO CEMENT PLAST C** must be added to the water and while using SBR, water/powder ratio to be adjusted.

## APPLICATION AS COARSE BASE COAT

Apply the mixes **EPO CEMENT PLAST C** to the prepared substrate, up to 10mm thickness, by steel trowel. It should be applied with the minimum of working and be allowed to partly set before finally trowelling into a coarse finish. Thickness up to 15 mm can be achieved by multistep of application.

## APPLICATION AS RUSH COAT

Apply the mixes **EPO CEMENT PLAST C** to the prepared substrate using a Tyrolean box or a power spray gun.

**Note:** Do not proceed with the application when rainfall is imminent unless in a sheltered or protected situation.

## FINISHING

**EPO CEMENT PLAST C** is finished by striking off with a straight edge and closing with a steel or plastic float. Not that water can be drawn to the surface if "overworking" with the float occurs, and an unsightly finish may result.

Damp sponges or plastic floats may be used to achieve a desired surface structure, but care should again be taken not to overwork the surface.

## CURING

Curing is not generally required. However, under extreme conditions-high temperature and drying winds-it may be prudent to use **EPO CURE** range of product as a curing agent.

**EPO CURE** range of product does not require mechanical removal prior to over coating.

## YIELD COVERAGE

40 Kg gives a yield of Approx.26 Liters at 20% water. One 40 Kg bag covers 26 square meters at 1.0 mm thickness.

## PRECAUTIONS

**Cleaning:** All equipment must be cleaned with water immediately after use. Mixes containing this product must not be emptied into drainage system.

**Protection:** All work must be protected from rain and frost until fully hardened.

**Fire resistance:** The product is not flammable.

## HEALTH AND SAFETY

The product is non-toxic but mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.

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