

EPO CEMENT PLAST F

Polymer Modified Cementitious Fine Base Coat and Finish Mortar



DESCRIPTION

EPO CEMENT PLAST F is a cementitious polymer modified single component mortar, based on a blend of Portland cements, graded fine 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 F is designed for application to minor imperfections in concrete and masonry surfaces. It is suitable for application in the range of 3 mm to 10 mm, can be used in the following situations:

- Used as fine base coat before plastering on smooth surfaces.
- Used as fair faced concrete after patch repairs to walls
- Filling honeycombs in precast units prior to over coating
- General re-profiling over large area in the range of 3 mm to 10 mm.
- Suitable to use in marine structures.

ADVANTAGES

Easy to use: trowel applied. Workability retained for approximately 60 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

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

TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
Mortar Consistency (Water Ltr/Powder Kg)	---	8 Ltr/40Kg
Workability	DIN 18555-PART-8	150 ± 30 min
Density	DIN 18555 PART 2	1.80 ± 0.10 Kg/Ltr
Bond Strength/Pull off Adhesion 7 Days	ASTM D 4541	> 8 kN
Compressive Strength 7 days 28 days	ASTM C 109	> 20 MPa > 26 MPa



PERFORMANCE STANDARD

EPO CEMENT PLAST F 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 clean 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 F**. Any residual surface water should be removed prior to commencement.

MIXING-SMALL QUANTITIES

Care should be taken to ensure the **EPO CEMENT PLAST F** 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 F** should be premeasured by weight. Take 4 Part (by weight) of **EPO CEMENT PLAST F** 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 ± 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 F** 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.

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

APPLICATION

Apply the mixes **EPO CEMENT PLAST F** to the prepared substrate, up to 5mm thickness, by steel trowel. It should be applied with the minimum of working and be allowed to partly set before finally trowelling into a smooth finish. Thickness up to 10 mm can be achieved by two steps of application.

If a very smooth finish is required, a small amount of water may be flicked on to the surface of the **EPO CEMENT PLAST F** with a paint brush prior to final trowelling.

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

FINISHING

EPO CEMENT PLAST F 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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Ver.01/22

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