

PLASTOMIX CF500

High Build Fiber Reinforced **Cementitious Plaster**

Description:

PLASTOMIX CF500 is a cement based, fiber reinforced, high build, high compressive strength ready mix plaster, formulated for exterior and interior plastering work to give a hard, smooth, and good shrinkage control layer. It is composed of Portland cement, lime, graded aggregates, microfiber, polymers and chemical additives to give when mixed with water, high workable, homogeneous good adhesion mix. PLASTOMIX CF500 can be applied traditionally by hand or by using plaster-spraying machine to achieve thicknesses up to 50 mm in single application.

Applications:

PLASTOMIX CF500 is recommended for plastering on block walls, bricks and concrete surfaces, but should not be applied on painted surfaces.

Due to high build feature, PLASTOMIX CF500 can be used for profiling elements & surfaces and for decorative carving applications.

For the application on AAC lightweight blocks, fair face concrete or concrete containing micro silica, use appropriate type of RUSHBOND spatter key coat to provide mechanical bonding.

Advantages:

- Easy to mix and apply, just add water.
- Pre-packed in the factory.
- Ideal for internal and external application.
- High compressive strength Low shrinkage.
- Fibre reinforces to reduce spider net cracking.
- High build up to 50 mm single application.
- Suitable for hot water.

Instructions for Use:

Surface Preparation:

The substrate should be free of loose particles, dust, dirt, grease, oil, curing agents or paint. Absorbent and

porous substrates should be moistened with water prior to the application of PLASTOMIX CF500.

It is recommended to apply RUSHBOND, a spatter dash coat, on the substrate before applying PLASTOMIX CF500 to improve adhesion and high bonding with the substrates. The right type of RUSHBOND applied depends on the substrate. For normal fair face concrete use RUSHBOND, for AAC lightweight block surface use RUSHBOND LB, and for concrete containing micro silica, GGBS, gypsum or cement boards or polystyrene surfaces, use RUSHBOND MS. Contact MATEX Technical Department for assistance.

Concrete or blocks substrates should have been allowed to cure sufficiently. All shrinkage movements should take place before applying PLASTOMIX CF500. Do not apply PLASTOMIX CF500 on surface exposed to movement, vibration or mechanical impacts. Saturate the surface with water and wait for the evaporation of excess water before applying the mix.

Mixing:

Add PLASTOMIX CF500 bag of 50 kg into a container of 8-9 liter of clean water. Mix until a uniform lumps free consistency mix achieved. Leave the mix to stand for 5 minutes and remix before uses. Use low speed mechanical mixer (200-300 rpm) fitted with a suitable mixing paddle. The mixture remains workable for one hour after mixing at 25°C. In case of application by using spray machine, adjust the water level to get suitable mix viscosity with uniform consistency.

Application:

PLASTOMIX CF500 can be applied manually or by using spray machine direct in one coat of a thickness of up to 50mm. for higher thickness apply the mortar in several layers. The first layer should be finished with a rough texture to provide mechanical Key with the second layer.

Once the plaster starts to set, smooth/even the applied plaster manually by using wood/plastic float and steel trowel. Do not spray water on the applied coat to ease

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the finishing process. Such wrong practice allows the cement content to be removed which will weaken the compressive strength of the plaster surface. Plaster should be sufficiently cured with water. In order to ensure proper curing, it is advisable to keep the plastered surface moist and protected from sun and wind during the first 48 hours.

Standards:

PLASTOMIX CF500 conforms to:

- ASTM C150, ASTM C926, ASTM C897
- BS 1015, BS 4551

TECHNICAL PROPERTIES	
Appearance	: Cementitious Powder
Wet Density	: 1.85 (kg/m ³)
Workability Time	: 40 minutes @ 25°C
Aggregate Size	: Up to 2.5 mm
Compressive Strength	: 15.0 N/mm ² @28 days
Flexural Strength	: 1.2 N/mm ² @ 28 days
Curing	: With water for minimum two days
Adhesion to surface	: 0.35 N / mm ²
Consumption	: Approximately 19 Kg. per m ² for 10 mm thickness

Packaging:

PLASTOMIX CF500 is available in 50 kg bags.
Available thickness: 12mm, 20 mm.

Cleaning:

Clean used tools with water before product dries.

Coverage:

PLASTOMIX CF500 will require 19.0 kg to cover 1.0 square meter @ 10 mm thickness.

Storage Conditions:

Store PLASTOMIX CF500 in dry and covered area away from direct sun light in a dry place. Keep material protected from rainfall and avoid excess compaction.

Shelf Life:

Shelf life is 12 months in original unopened bag when the above conditions are met.

Recommendations:

- Do not apply PLASTOMIX CF500 in rainy weather.
- During summer season, working area should be covered to prevent the direct sun effect. Keep equipment in shaded area and use cold water for mixing.
- Saturate the substrates with clean water before applying PLASTOMIX CF500.
- After application, plaster should be cured for minimum two days.
- No further water should be added to the mix. Hard and set plaster should not be re-mixed or used.
- Do not apply PLASTOMIX CF500 onto gypsum, metallic, wooden supports or painted surfaces.
- Before applying any kind of stucco finish, paint, or wall paper the plaster has to be allowed to dry out completely.

Health and Safety:

- Use goggles and gloves during application. Do not breathe dust of product.
- Avoid contact with eyes or skin.
- In case of eye contact, flush thoroughly with plenty of water and seek immediate medical help.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

