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.

Uses:

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.

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 tropical climate.

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 BL, and for concrete containing micro silica, GGBS use RUSHBOND MS. Contact MATEX Technical Department for assistance.

Concrete or blocks substrates should be 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 is achieved. Leave the mix to stand for 5 minutes and remix before use. Use low speed mechanical mixer (200-300 rpm) fitted with a suitable mixing paddle. 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 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 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:

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

PLASTOMIX CF500

TECHNICAL PROPERTIES	
Appearance	Cementitious Powder
Wet Density	1.95 ± 0.03 kg/lit
Workability Time @ 25°C	40 minutes
Aggregate Size	Up to 2.5 mm
Curing	With water for minimum two days
Adhesion to surface	0.5 N / mm²
Compressive Strength@28 days	15.0 N/mm²
Flexural Strength@ 28 days	2.0 N/mm²
Consumption	Approximately 19 Kg. per m² for 10 mm thickness

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Coverage:

PLASTOMIX CF500 will require 19.0 kg to cover 1.0 square meter @ 10 mm thickness.
*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

PLASTOMIX CF500 is available in 50 kg recyclable bags.

Storage Conditions:

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

Shelf Life:

PLASTOMIX CF500 can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

Cleaning:

Clean used tools with water before product dries. Hardened materials can only be removed mechanically.

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.
- 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:

- Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

FIRST AID:

Eyes:	In the event of accidental splashes, flush with warm water and seek medical advice.
Skin:	Wash skin thoroughly with soap and water
Inhalation:	Remove to fresh air, keep patient rested
Ingestion:	Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to PLASTOMIX CF500 Material Safety Data Sheet.

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