

PLASTOMIX C100

Premixed Flexible Fiber Modified Cementitious Plaster

Description:

PLASTOMIX C100 is a single component, flexible, cement based, fiber modified, polymer enhanced, pre-mixed plaster. It is composed of Portland cement, graded aggregate, silica sand, lime, special chemical additives and polymers. Formulated for exterior and interior plastering work to give a flexible, smooth, and high shrinkage control layer. PLASTOMIX C100 has features of homogeneous, high adhesion, and high workability when applied up to a thicknesses not exceeding 10 mm.

PLASTOMIX C100 contains high percentage of polymer. It can be applied directly on block walls, normal concrete surfaces, bricks without the need of hacking the surface or applying rush coat. PLASTOMIX C100 can be applied traditionally by hand or by using plaster-spraying machine. For application on concrete containing micro silica, apply RUSHBOND MS, spatter key coat to provide mechanical bonding.

Uses:

PLASTOMIX C100 can be applied directly on substrates without the need to roughen it by hacking or by applying rush coat internally and externally. It can be applied as a thin layer of plaster with thickness varies from 4 mm to 10 mm on the following substrates:

- AAC (autoclaved aerated concrete blocks).
- Smooth concrete walls or ceilings.
- Walls constructed by cement blocks, clay or bricks.

Advantages:

- Easy to mix and apply, just add water.
- Ideal for internal and external application.
- Flexible, non-shrink mortar.
- Good strength and high adhesion.
- High durability.
- 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 C100.

For concrete containing micro silica, GGBS, cement boards or polystyrene surfaces, 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 C100. Do not apply PLASTOMIX C100 on dry surfaces. Saturate the surface with water and wait for the evaporation of excess water before applying the mix.

Mixing:

Add PLASTOMIX C100 bag of 50 kg into a container of 9-10 liter of clean water. Mix until a uniform lumps, free consistency mix is achieved. Leave the mix to stand for 4 minutes and remix before use. 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 C100 can be applied manually or by using spray machine direct in one coat of a thickness up to 10mm. If higher thickness is required then apply the mortar in two layers. The first layer should be finished with a rough texture to provide mechanical key with the second layer. Cure the first layer with clean water for two days before applying the second coat.

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

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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

TECHNICAL PROPERTIES	
Appearance	Cementitious Powder
Wet Density	1.95 ± 0.03 kg/lit
Workability Time @ 25°C	50 minutes
Curing	With water for minimum two days
Max. Aggregate Size	Up to 1.18 mm
Compressive Strength @28 days	15.0 N/mm ²
Flexural Strength@ 28 days	2.8 N/mm ²

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

Coverage:

PLASTOMIX C100 will require 19.5 kg to cover 1.0 square meter @ 10 mm thickness.

Packaging:

PLASTOMIX C100 is available in 50 kg recyclable bags.

Storage Conditions:

Store PLASTOMIX C100 in dry and covered area away from direct sun light. Keep material protected from rainfall and avoid excess compaction.

Shelf Life:

PLASTOMIX C100 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 material can only be removed mechanically.

Remarks:

- Do not apply PLASTOMIX C100 in rainy weather.
- Working area should be protected from direct sun light and high weather temperature.
- Hard and set plaster should not be re-mixed or used.
- Do not apply PLASTOMIX C100 onto gypsum, metallic and wooden supports.
- During summer season, working area should be covered to prevent the direct sun effects. Keep equipment in shade and use cold water for mixing the product.
- Normal curing practice for cementitious plaster should be followed. Allow water curing for a minimum period of 2 days.
- Before applying any kind of stucco finish, paint, or wall paper the plaster has to be allowed to dry out completely.
- For applications on concrete containing micro silica, GGBS, curing compound or any special additives, contact MATEX Technical Department for assistance.
- Should not be applied on floors or on painted surfaces.

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 C100 Material Safety Data Sheet.

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