

# PLASTOMIX C200

## Cementitious Dry Ready Mix Plaster

### Description:

PLASTOMIX C200 is a cement based 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, graded aggregates, polymers, fibre and chemical additives to give when mixed with water, high workable, homogeneous good adhesion mix. PLASTOMIX C200 can be applied traditionally by hand or by using plaster-spraying machine.

### Uses:

PLASTOMIX C200 is recommended for plastering on block walls, ceilings, bricks and concrete surfaces, but should not be applied on painted surfaces. 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.
- Low shrinkage.
- Very good 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 C200.

It is always required to apply RUSHBOND, a spatter dash coat, on concrete or high porous substrate before applying PLASTOMIX C200 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. For cement block, substrate key coat is not required. 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 C200. Do not apply PLASTOMIX C200 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 C200 bag of 50 kg into a container of 7.0-8.0 liter of clean water. Mix until a uniform lump free consistency mix 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. 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 C200 can be applied manually or by using spray machine direct in one coat with a thickness of up to 20mm. 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. The total thickness should not be more than 40 mm.

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.

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## Standards:

- ASTM C150, C387, C926, C897
- BS 4551, 5262, 5492

TECHNICAL PROPERTIES	
Appearance	Cementitious Powder
Wet Density	1.80 ± 0.03 kg/lit
Workability Time @ 25°C	40 minutes
Aggregate Size	Up to 2.0 mm
Adhesion to surface	≥0.30 N / mm <sup>2</sup>
Compressive Strength@28 days	4.5 N/mm <sup>2</sup>
Flexural Strength@ 28 days	2.0 N/mm <sup>2</sup>
Curing	With water for minimum two days
Consumption	Approximately 16.0 Kg. per m <sup>2</sup> 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 C200 will require 16.0 kg to cover 1.0 square meter @ 10 mm thickness.

\*Coverage rate is an approximate value, and subject to actual site conditions.

## Packaging:

PLASTOMIX C200 is available in 50 kg recyclable bags.

## Storage Conditions:

Store PLASTOMIX C200 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:

PLASTOMIX C200 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.

## Remarks:

- Do not apply PLASTOMIX C200 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 C200.
- After application, plaster should be cured for a minimum of two days.
- No further water should be added to the mix. Hard and set plaster should not be re-mixed or used.
- In some application PLASTOMIX C200 can be used for as dash spatter on internal AAC Block surface. Contact MATEX Technical Department for assistance.
- Do not apply PLASTOMIX C200 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 C200 Material Safety Data Sheet.

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