

Technical Data Sheet

DECOCRETE CM

Cementitious Dry Ready Mix Plaster

Description:

DECOCRETE CM is a colored cement based fibre reinforced ready mix plaster, formulated to give a hard, smooth, and good shrinkage control layer. It is composed of Portland cement, fibre, color pigments, lime, graded aggregates, polymers and chemical additives to give when mixed with water, high workable, homogeneous good adhesion mix. DECOCRETE CM can be applied traditionally by hand or by using plaster-spraying machine.

Uses:

DECOCRETE CM is recommended for plastering as a decorative finish coat 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.

DECOCRETE CM can also use for production of faux rockwork, waterfalls, theme parks, and concrete counterstops.

Advantages:

- Easy to mix and apply, just add water.
- Pre-packed in the factory.
- Ideal for internal and external application.
- Fiber reinforced low shrinkage mortar
- Very good adhesion.
- High durability, crack resistant.
- Suitable for hot climate.
- Manufactured under strict controls to ensure batch-to-batch color consistency.

Instructions for Use:

Surface Preparation:

The substrate should be free of lose particles, dust, dirt, grease, oil, curing agents or paint. Absorbent and porous substrates should be moistened with water prior to the application of DECOCRETE CM.

DECOCRETE CM must be applied on a surface with the proper roughness to provide adequate mechanical keying. For best results apply RUSHBOND, a spatter dash coat, on the substrate before applying DECOCRETE CM 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, 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 DECOCRETE CM. Do not apply DECOCRETE CM 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 DECOCRETE CM bag of 50 kg into a container of 8-9 liter of clean water. Mix until a uniform lumps free consistency blend 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. 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:

DECOCRETE CM can be applied manually or by using spray machine direct in one coat of a thickness of up to 40mm. 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 100 mm.

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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.

Sealing:

It is recommended to seal the cured surface of DECOCRETE CM in order to prevent staining from rain runoff and other sources contamination. Use a suitable recommended sealer from the range of MATEX Sealers to protect the surface without disturbing the breathability of the surface.

Standards:

- ASTM C387, C926, C897
- BS 4551, 5262, 5492
- BS EN 13914

TECHNICAL PROPERTIES	
Appearance	Cementitious Colored Powder
Wet Density	1.95 kg/lit
Workability Time	40 minutes @ 25°C
Curing	With water for minimum two days
Aggregate Size	Up to 2.0 mm
Adhesion to surface	0.50 N / mm ²
Compressive Strength	12.0 N/mm ² @28 days
Flexural Strength	4.0 N/mm ² @ 28 days
Consumption	Approximately 19.0 Kg. per m ² 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:

DECOCRETE CM 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:

DECOCRETE CM is available in 50 kg clean, recyclable bags.

Storage Conditions:

Store DECOCRETE CM 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:

DECOCRETE CM 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 DECOCRETE CM 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 DECOCRETE CM.
- No further water should be added to the mix. Hard and set plaster should not be re-mixed or used.
- Do not apply DECOCRETE CM onto gypsum, metallic, wooden supports or painted surfaces.

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Health & 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
DECOCRETE CM Material Safety Data Sheet.

MATEX Rev.02-0223

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