

PLASTOMIX C50

Flexible Fiber Reinforced, Cementitious Plaster for Thin Applications

Description:

PLASTOMIX C50 is a single component, flexible cementitious plaster composed of cement, fine fillers, fiber organic polymer, lime and special additives. When mixed with water, the product becomes easily workable with high adhesion power and excellent elasticity. It is recommended for applications with a thickness ranging from 1 to 5 mm per layer. The applied coat has high flexibility, breathable and moderately water repellent, with smooth finish. It is an ideal substrate for paint, wallpaper or decorative finishes.

Uses:

PLASTOMIX C50 is formulated to be applied as a thin coat from 1 mm to 5 mm directly on AAC (Autoclaved Aerated Concrete) blocks or panels. PLASTOMIX C50 can be used as a plastering coat for all new cementitious and concrete surfaces and ceiling. It can also be used for restoring and smoothing of old surfaces for internal and external application.

Advantages:

- Factory controlled pre-blend ensures consistent high-quality product
- Strong adhesion on variety of substrate
- Shrinkage controlled, reduces surface cracks
- Mineral based non-hazardous
- VOC compliant

Surface Preparation:

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

Aerated autoclaved concrete block walls must be planar and clean from adhesive residues after blocks laying.

Concrete of blocks substrates should be allowed to cure sufficiently. All shrinkage movements should take place before applying PLASTOMIX C50. Do not apply PLASTOMIX C50 on surface exposed to movement, vibration or mechanical impacts.

Fibre glass mesh/expanded metal lath (as approved by the consultant) to be fixed at all junctions of dissimilar backgrounds (i.e. faced concrete and block work).

If primer is not applied, it is strongly recommended to saturate the support with water before applying the mortar, in order to prevent substrate suction of water from the mix. Free water on the surface should be allowed to evaporate before applying the mortar.

Instructions for Use:

PLASTOMIX C50 can be applied by traditional manual application or by plastering machines. For thin application, it is recommended to apply the mix manually with a smooth spatula.

To prepare the mortar, pour 4.5 to 5.0 litres of water into a clean uncontaminated container and add slowly, while mixing 25 kg of PLASTOMIX C50 bag. Mix carefully for few minutes using an electric agitator till obtaining a homogeneous mixture, free from lumps. Once mixed, allow to stand for 5 minutes and mix again before applying. No further water should be added to the mix. Hard and set plaster should not be re-mixed with water or used.

Apply PLASTOMIX C50 in one coat with smooth spatula. Once dried at touch, the surface can be finished with smooth spatula or sponge to obtain the esthetical effect desired. 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.

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Standards:

- BS 1881, 5262, 5492
- EN 13501
- ASTM C109

TECHNICAL PROPERTIES	
Color	White, Grey
Density	1.75 ± 0.03 kg/lit
pH of mix	≥12
Workability Time @ 25°C	50 minutes
Mixing Ratio	Approx. 4.5-5.0 Ltr. of water for 25 Kg. bag
Noxiousity according to ECM 88/379	No
Adhesion Strength	≥ 0.5 N/mm ²
Compressive Strength (ASTM C109)	≥ 15 N/mm ²
Flexural strength	>4 N/mm ²
Vapour Permeability	≥15
Water absorption coefficient due to capillary action	≤ 0.38 Kg./m ²
Fire resistance as per UNI EN 13501-1	Class A1

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

Coverage:

PLASTOMIX C50 covers 17 m² per bag at 1mm thickness.

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

Packaging:

PLASTOMIX C50 is supplied in 25 kg recyclable bag

Storage:

Keep the product in a dry place, away from direct sunlight and into original well-closed packaging.

Shelf life:

PLASTOMIX C50 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.

Recommendations:

- Protect the freshly applied coating from too rapid water evaporation.
- Do not apply PLASTOMIX C50 onto gypsum, metallic or wooden supports..
- PLASTOMIX C50 is a cement based product. All precautions of proper curing of concrete and mortar should be applied.
- For application procedures in case of light weight blocks, concrete containing micro silica, GGBS, curing compound or any special additive, contact MATEX Technical Department.

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 C50 Material Safety Data Sheet.

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MATEX warrants that its products are free from material and manufacturing defects. Instructions on how to use the product should be strictly followed to ensure effectivity and safe use. MATEX shall not be liable either directly or indirectly for any damages to personal, equipment or products that may occur as a consequence of the failure of any products application because it has no direct or continuous control over where or how its products are applied. It is the user's responsibility to acquire always the updated version of datasheets.

