

DECOFLOOR CM10

Colored Decorative Cement Based Self Levelling Floor Topping

Description:

DECOFLOOR CM10 is an internal, advanced and unique cement based decorative flooring compound designed to produce prestigious and creativity installed architectural wear surfaces subject to moderate shock and impact loads. DECOFLOOR CM10 is ideally used in light to medium foot trafficked areas such as private living areas, offices, shop and hotels, etc.

Special Properties:

- Self levelling and smoothing cement
- Can be installed using artistic styling and creative techniques
- Wide range of modern colours
- Rapid hardening and curing
- Dries to a stress-free surface eliminating the risk of crack-formation
- Excellent flow properties

Applications:

DECOFLOOR CM10 is used internally to cast a thin smooth colored decorative flooring with a thickness from 5mm to 10mm for a wide range of floor finishes.

Advantages:

- Self-levelling, minimal finishing required.
- Applicable in thicknesses from 5 mm to 10 mm.
- High bonding to substrate.
- Single component, ease of application.
- Minimal shrinkage with outstanding resistance to cracking.
- Stable - can be installed in large joint less areas.
- Colored.

Instructions for Use:

Surface Preparation:

Concrete substrate should have been placed for at least 28 days and have moisture content less than 5%. All surfaces should be sound, clean, dry and free from

loose material, efflorescence, laitance, curing compounds, dirt, oil and grease.

Contamination or excessive concrete laitance can be removed by utilizing grinding, captive blasting, sand blasting. If the substrate is restricted to access, utilise preparation by handy mechanical tools. Any necessary repairs should be carried out using one of MATEX range of concrete repair products. Consult with Technical Department for recommendation.

Primer:

Apply a coat of ARMOPRIME AC to the substrate prior to application of the topping. The function of the primer is to seal the substrate to prevent air release from the substrate which will create air bubbles and pinhole to the top surface of DECOFLOOR CM10. The primer will also act as a bonding agent between the substrate and the screed.

Mixing:

Each 20 Kg. Bag of DECOFLOOR CM10 requires 4.2 liter of water, add color to water before mixing with powder. Stir the water/color concentrate mixture using a hand stirrer for 1-2 minutes. Mix thoroughly and ensure that no colour concentrate is left at the bottom of the mixing container. Do not use a power mixer. Always re-stir the water mix immediately before adding DECOFLOOR CM10 powder to ensure colour consistency. Mix with low speed mixer (300-400 RPM).

Do not mix partially, use full bag contents. After mixing, do not add more water to the mixed material to increase workability. This will increase the water: powder ratio, and will eventually reduce the final material performance.

Installation:

Pour the mixed DECOFLOOR CM10 mortar onto the primed subfloor and spread in place using adjusted spreader or hand trowel. Use stand-up gauging tool for

DECOFLOOR CM10

height adjustments. Spread the material with a trowel and allow it to self-level. It is recommended to start in one corner placing a continuous stream of material along one edge of the area and back lap as soon as possible for a uniform, smooth surface. Tools such as spiked rollers, notched squeegees, trowels and smoothers should be used to assist placement. Immediately after placing the material, roll the surface with a spiked roller to help the release of any trapped air. In normal conditions DECOFLOOR CM10 does not require curing.

Pumping Installation:

For ease and efficiency of application, DECOFLOOR CM10 can be pumped using a suitable automatic Mixing Pump. Contact Matex technical services for detailed information on pumping.

Sealer:

DECOFLOOR CM10 requires a high quality sealer to preserve the designed floor finish and to avoid stains and dirt pick up. Contact MATEX Technical services for recommended sealers. The recommended sealer should be applied approximately 24 hours after the installation of DECOFLOOR CM10.

Standards:

DECOFLOOR CM10 conforms to:

- UNE-EN 13748-1, UNE-EN 13892-3
- EN 13813: CT-C40-F10-A22

Packaging:

DECOFLOOR CM10 is available in 25 Kg bags.

Coverage:

Approximately 1.5Kg. powder/mm/m². A 20Kg. bag of DECOFLOOR CM10 will cover approximately 2.4m² at 5mm thickness.

Storage:

DECOFLOOR CM10 has a shelf life of approximately 6 months if stored in dry conditions in the original unopened packaging.

TECHNICAL PROPERTIES

Bulk Density	:	Approx. 1.4 Kg./L
Fresh Mortar Weight	:	Approx. 2.0 Kg./L
Material requirement	:	Approx. 1.5 Kg./m ² /mm
Initial set	:	45 minutes
Working Time (+20°C)	:	Approx. 30 mins
Walkable (+20°C)	:	Approx. 8 hours
Compressive Strength	:	
After 1 day		Approx. 13 MPa
After 7 days		Approx. 20 MPa
After 28 days		Approx. 30 MPa
Tensile bending strength	:	
After 1 day		Approx. 3 MPa
After 7 days		Approx. 5 MPa
After 28 days		Approx. 8.5 MPa
pH	:	Approx. 11 after 1 day
Suitable for floor heating	:	Yes. Can be applied over internally heated subfloors
Mixing time	:	2-3 minutes
Rest time before applying	:	2 minutes
Life of mass	:	25-30 minutes
Touch dry	:	4-5 hours (20°C)
Adhesion on concrete	:	1 m/mm ²
Adhesion on ceramic	:	098 N/mm ²
Fire Resistance	:	A1 Euroclass
*These results are estimated on 20°C and can vary considerably depending on the ambient temperature		

Shelf Life:

DECOFLOOR CM10 can be utilized within 12 months of production date if stored in proper conditions in unopened original packaging.

Cleaning:

Clean tools and equipment with water before material hardens.

DECOFLOOR CM10

Remarks:

- Designed for interior application use only. DECOFLOOR CM10 is used for foot and light traffics areas. Do not use for exterior application or in areas with heavy traffic.
- Do not expose the product during application and before sitting to air currents. The product will lose self-leveling features and form a crust resulting in wrong application.
- During summer season or temperature higher than 35°C, working area should be covered to prevent the direct sun effects. Keep equipment cool and use cold water for mixing.
- Make sufficient material, plant and labor available to ensure that application is a continuous process.
- Protect the freshly applied DECOFLOOR CM10 from direct sunlight and/or strong drying wind, and cure for two days by covering with polythene sheet.
- Application temperatures 10°C to 30°C
- Always respect the same water percentage during the mixing process.
- Respect the minimum required thicknesses according to the different types of substrate.
- Respect perimeter joint (min 5mm), expansion and retraction by cutting or decorative joint max (16-20m²)
- Do not add any additives to the mortar.

Health and Safety:

- Use goggles and gloves during application. Do not breathe dust of product.
- Avoid contact with eyes or skin.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

