

ARMOFLOOR CM4

Epoxy/Cement Screed for Humid Support

Description:

ARMOFLOOR CM4 is a Water based three part epoxy cement floor screed, formulated especially to be applied at high humidity surfaces, to act as a barrier membrane for subsequent layers. It is characterized with high adhere power to concrete surfaces suffering from rising moisture ,and can be applied up to a thicknesses of 4 mm.

Applications:

ARMOFLOOR CM4 is designed mainly to be used as an anchoring coat for humid and green concrete supports to act as a waterproofing barrier before the application of epoxy or polyurethane coatings, or with any other waterproofing and acid resistant products. Other applications includes:

- Top coat on humid floors in factories and stores.
- As a vapour barrier (minimum 2mm thickness) prior to installation of different types of flooring such as parquet, PVC, linoleum, etc.
- Leveling or Patching horizontal concrete surfaces under Epoxy, Polyurethane, tiles, sheet floors, carpets or parquet.
- Can be used extended with Silica Sand as a patching and repairing mortar.
- As an insulation layer onto the support to improve the adhesion of floor coating resin on humid substrates.

Advantages:

- High bonding to substrate even at damp concrete.
- Applied as patching mortar for horizontal surfaces.
- Water based, very low VOC.
- Ease of application, shrinkage compensated.
- Accept all types of epoxy, Polyurethane or acrylic coating systems.
- Excellent chemical resistance.
- High early and final Mechanical strength.

- Excellent resistance to water and oil.
- Thermal Expansion Properties similar to concrete
- It adheres perfectly to both compact and porous surfaces including stoneware, concrete, plaster, asbestos cement, etc.

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Proper surface preparation is essential to ensure maximum bond strength between the substrate and the flooring system is achieved. It is always recommended to prepare the floor utilizing mechanical preparation method: Grinding, captive blasting, sand blasting. If the substrate is restricted to access, utilise preparation by handy mechanical tools.

Perform repairs to cracks, levelling of floor; voids filling by means of LAVAPOXY Epoxy based repair products. Consults MATEX Technical Department for further advice. Apply HYDROPLUG to stop water seepage if exits in the floor prior to the application of ARMOFLOOR CM4. For Porous surfaces or old substrates, it is recommended to prime the surface with ARMOPRIME WB before applying ARMOFLOOR CM4.

Mixing:

ARMOFLOOR CM4 is composed of three components. At the time of application, Mix the contents of component A (Base) with a low speed mixer for two minutes to homogenize the contents of the container. Add the contents of part B (Hardener) to Part A container and mix thoroughly the material with low speed mixer (200-300 RPM) then add Part C (Filler) while mixing continuously for an interval of 3-4 minutes confirming a homogenous, color consistent, lump free, mixture is reached.

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Application:

After mixing, allow the product to rest for 3 minutes to release entrapped air, then spread ARMOFLOOR CM4 on the prepared area to desired thickness by a clean trowel.

The product is not self-smoothing, ensure proper spreading with troweling compaction. The minimum thickness recommended is 2 mm if a vapor barrier system is required. Once the mix is leveled, Remove entrapped air by using a spiked roller over the applied layer of ARMOFLOOR CM4

For batching purpose, mix graded silica sand to the mixture at a rate of 1:1 by weight and apply the mixture as a batching mortar or anchoring materials on horizontal surfaces.

It is possible to apply epoxy coating polyurethane coating, parquet, PVC or any other finishing flooring after 24 hours of applying ARMOFLOOR CM4.

Do not apply ARMOFLOOR CM4 on substrate exposed directly to the sun during peak temperature period of the day or when the temperature is higher than 35°C. In this case, it is strongly recommended to cover working area during application.

Standards:

ARMOFLOOR CM4 conforms to:

- ASTM E1643, ASTM E1745-09

TECHNICAL PROPERTIES

Color	: White
Compressive Strength	: 65 N / mm ²
Flexural Strength	: 15 N / mm ²
Bond Strength	: Failure within concrete
Density	: 1.95 Kg. / Lt.
Pot-life time at 25°C	: 50 minutes
Water Absorption	: NIL
Service Temperature	: from -5°C to +85°C

Packaging:

ARMOFLOOR CM4 is available 25 kg set of three packs.

Coverage:

ARMOFLOOR CM4 achieves coverage of 7.0 square meters per set @ 2.0 mm thickness.

Storage:

Store in original packing in dry conditions away from direct sunlight and humidity levels.

Shelf Life:

ARMOFLOOR CM4 can be utilized within 12 months of production date if stored in proper conditions in unopened original packing.

Cleaning:

Mixing tools should be cleaned with SOLVENT after use.

Remarks:

- Should not be applied on to asphalts, PVC tiles and weak concrete.
- Should not be applied if the surface relative humidity is more than 70%.

Health and Safety:

- Use goggles and gloves during application. Do not breathe vapor of products.
- Use only in well ventilated areas
- 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.

