

MIXTOPE ecoFLOOR

Overlayment / underlayment self leveling / smoothing flooring system

Mixtope ecoFLOOR is a single component; designed by blend of powder based on geopolymer technology which is having self leveling / smoothing property without shrinkage or cracking. It is a single component ecofriendly product produce a high glossy finish within 20 hours time after placing.

Appropriation

Highly recommended for self smoothing overlayment / underlayment for industrial and residential applications

For repairing damaged / uneven flooring

For topping rough / spalled concrete

Characteristics

No priming required

Non-shrink

Super abrasive resistance

Excellent resistance to weathering agents

Anti-algal and anti-fungal

Self curing

Suitable for pedestrian traffic after 3 hours

Good adhesion to substrate

No V O C content

Additional properties

No VOC Content – improves air quality and comfort in the applied area and personnel health

No odor / toxic fumes generated during application – improves health and safety of the persons involves in application and daily use

Matches the co-efficient of thermal expansion with the host concrete hence no peel off and a permanent flooring solution

Fire resistant – compatible with the standard health and safety norms

Forms high bonding strength with substrate and no cold joints, the life of base concrete will increase due to this

Designed for high durability, repair chances are very less

No cement screed required in between the mother slab and Mixtope ecoFLOOR, can be placed directly on the concrete surface

Vehicular movement

5mm thick laying for vehicles with rubber tyres

10mm thick laying for vehicles with steel wheels

Technical Data & Properties

Appearance: off white / Grey powder

Density: 1.2 gm/cc

Compressive strength:

24 hours: 15N/mm²

72 hours: 20 N/mm²

28 days: 35 N/mm²

Flexural strength:

28 days: 5 N/mm²

Adhesion to substrate: 5 N/mm²

Application temperature: 5 °C to 50 °C

Initial set: 25 minutes at 25⁰ C

Final set: 50 minutes at 25⁰ C

THE CONSTRUCTION CHEMIST



MIX UK LTD

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Product Management

Surface preparation: Concrete and masonry substrates shall be at least 14 days old and the moisture content less than 7%. It should be dry and free of dust, dirt, oil, grease, loose particles, curing compounds, form release agents etc. This can be achieved by wire brushing, grit blasting, high pressure water jetting etc. Bitumen based membranes completely removed from the substrate by mechanical scarification or by any other mechanical way. The substrate must be thoroughly checked for its micro / hair line cracks for its soundness. Surface cracks and Hollow or damaged portions must be filled with Mixbuild repair mortar, sharp edges and wide cracks must be cut and repaired with Mixbuild HB – Polymer modified repair mortar

Priming:

Normal and new concrete surface does not required any priming, but for very old concrete primer recommendation is as per site / substrate condition

Application:

Add 1.8 to 2 litre of clean water to 10 kg of powder & mix with electric drill (500 to 800rpm) fitted with a spiral mixer to obtain a uniform & lump free consistency. Mix 3 to 4 minutes to obtain a lump free smooth flowable slurry. Pour the mixed material over the area and spread at desired thickness using a notched trowel or spiked roller. This material is recommended for a maximum thickness of 5-10mm. Do not add additional water at any stage to achieve consistency.

Coverage: 10kg / sqr mtr @5mm thick

Points to be noted: should not applied direct sunlight and heavy wind. Do not apply in a highly ventilated area, as the mixed water will evaporate immediately before it cures

Toppings: Possible toppings are Neoprene, Vinyl or Acrylic and Resin based material

Cleaning: Immediately clean the tools with water

Packing & Storage

Mixtope ecoFLOOR is available in 10 / 20 kg packs. MIXTOPE ecoFLOOR shall be stored in cool, dry and shaded conditions. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per manufacturer's recommendations. In extreme tropical climate, the product shall be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life.

Health & Safety

Mixtope ecoFLOOR contains no hazardous substance. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure the product is stored as instructed on the safety section of the labeling. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately. For more details, please refer to the MSDS released on each product

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Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

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