

MixTOP 5000

Three component Epoxy based floor screed system

MixTOP 5000 is a solvent free three component epoxy screed system consists of Epoxy resin (A), hardener (B) and quartz silica filler (C). It has excellent mechanical properties, high resistance to wear and wide variety of chemicals. This is designed as a heavy duty topping for industrial floor 5 - 50mm thickness

Appropriation

Floor of:

- Chemical plants
- Ware houses
- Dairies
- Food processing plants
- Workshops
- Metal treatment plants
- Power houses
- Textile production - bleaching dyeing

Characteristics

- High Impact and abrasion resistant
- High compressive and tensile strength Excellent resistance to chemicals
- High strength
- Non tainting & Solvent free

Technical data and properties

Compressive strength (BS 6319 part 2)

- @7 days : 90 N/mm²
- @ 28 days : 105 N/mm²

Flexural strength @7days : 17N/mm² (BS6319 part 3)

Tensile strength @7 days : 17N/mm² (BS 6319 part 7)

Pot life:

- @25°C : 60 minutes
- @35°C : 45 minutes

Density of mixed material : 2.16kg/L

Shore D hardness : 70-80

Bond strength : Greater than the cohesive strength of good quality concrete

Impact resistance : No cracking or debonding

Chemical resistance

- Hydrochloric Acid 20% : Excellent
- Tartaric acid 10% : Excellent
- Sodium Hydroxide 50% : Excellent
- Sulphuric acid 10% : Very good
- Diesel / petrol 100% : Excellent
- Lactic acid 10% : Very good
- Phosphoric acid 10% : Very good
- Nitric Acid 5% : Good
- Hydrocarbon 100% : very good

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Product management

Surface preparation:

The new concrete surface to be treated must be of 28 days old. The concrete should be sound and any cracks. Pot holes to be repaired with MixBUILD® system and allow curing. The surface should be free from dust, dirt, curing compound and laitance. Clean the surface with MixCLEAN and wash with water. Before application of MixTOP 5000 makes sure that the surface is absolutely dry

New concrete:

Floors to be coated or overlaid should be at least 28 days aged unless water reducing admixtures have been incorporated. The removal of laitance or contaminants is best achieved by mechanical means such as vacuum recovery shot blasting or scarifying

Existing concrete:

All contaminations must be removed and kept the substrate clean exposed. Mechanical means of preparation are preferred followed by the removal of dust and other loose debris using an industrial vacuum. In areas of deep penetrating contamination by oils, grease and fats, hot compressed air followed by impregnation with a low viscosity sealer / primer is the recommended treatment

Uneven concrete should be leveled to produce a roughened flat surface. Where repairs are required they can be carried out using MixTOP 5000 filled out with additional aggregate or, if time allows a suitable product from MixBUILD range

Expansion, control and isolation joints in concrete substrates should be carried through MixTOP 5000 floors and filled with a suitable sealant from the Mix range

Prior to application MixTOP 5000 should be stored under cover in air conditioning and protected from extremes of temperature which may cause inconsistent workability, finish and cure times of the mixed material

Priming:

Prime the prepared surface with two components MixTOP EP of the same colour and allowed to dry. Mix the two parts using a slow speed mixer with a suitable paddle. Mix until uniform consistency is obtained. The components are pre weighted and should not split or divided. Apply by brush or roller and work well into the surface. Apply according to the stated coverage. Allow to stand for 20 minutes before applying the MixTOP 5000 to check for absorption. If the surface become matt, showing absorption, re prime the surface. Apply the MixTOP 5000 whilst the primed surface is still tacky. If the primer hardens reprime within 24 hours

Mixing:

Mixing should be carried out using a forced action mixer, Add the base, reactor and colour pack to the mixer completely emptying the contents of the containers. Mix for 1 minute until a uniform colour is achieved. Slowly add the aggregate component and mix for a further 3 minutes until a uniform colour consistency is achieved. Mixing time should be varied according to temperature but typically 4 minutes in total is sufficient. It is important to maintain constant mixing times throughout the contract, to ensure consistent colour and avoid introducing excessive air into the system

MixTOP 5000 is supplied in a pre-weighed packs which should not be split or divided. It is important to use complete packs

Placing:

The epoxy screed shall be applied when the primer is still in tacky stage. Discharge material from the mixer to get a uniform thickness



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Coverage

2kg/m²/ @1mm thickness, yield is 12.68 liters for 27.4hg units

Cleaning

Clean the tools immediately after use with xylene, xylol or toluene solvents

Storage

Store in closed containers and avoid direct sunlight

Packing & Storage

MixTOP 5000 is available in 27.4 kg drums. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers. Should be stored in cool, shaded and dry warehouses, similar to cement. Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life

Health & Safety

MixTOP 5000 contains no poisonous 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 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 Fab product

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Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hands- onapplication. The data sheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of 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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