

MIXTOP 2000

Three component Epoxy based floor screed system

Mixtop 2000 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 - 20mm thickness.

Appropriation

Floor of:

Chemical plants
Ware houses
Dairies
Food processing plants
Workshops
Metal treatment plants
Power houses
Textile production – bleaching dying

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 : 50 N/mm²
@ 28 days : 74 N/mm²
Flexural strength @7days: 25N/mm² (BS6319 part 3)
Tensile strength @7 days: 17N/mm² (BS 6319 part 7)
Pot life: @25⁰C : 60 minutes
@35⁰C : 45 minutes
Density of mixed material: 1.656kg/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

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 Mixclen and wash with water. Before application of Mixtop 2000 makes sure that the surface is absolutely dry.

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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 2000 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 2000 floors and filled with a suitable sealant from the Mix range.

Prior to application Mixtop 2000 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 drill with a suitable paddle. Mix until uniform consistency is obtained. The components are preweighted 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 2000 to check for absorption. If the surface become matt, showing absorption, re prime the surface. Apply the Mixtop 2000 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 2000 is supplied in 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.

Coverage

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

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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 2000 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 2000 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 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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