

MIXTOP FH

Single component concrete floor hardener / dust proofer



the construction chemist...

Introduction

Mixtop FH is a colorless low viscosity liquid used for dust proofing and hardening the surface of concrete floors. The reactive solution penetrates deeply into the concrete to react with the free lime forming hard insoluble crystals: these crystals bind the cement and aggregate particles together. The result is a hard impermeable no dusting concrete surface. Mixtop FH is used to improve the concrete surface of concrete floors.

Appropriation

Floor & walls of:

Chemical plants & Ware houses
Dairies & Food processing plants
Residential and commercial units
Mechanical Workshops & Metal treatment plants
Power houses
Railway platforms, Airports and stadiums

Characteristics

Non dusting
Excellent resistance to chemicals
High strength
Non tainting & Solvent free
Permanent penetrating treatment
Suitable for new and old concrete
Hardening action improves abrasion resistance
Suitable to apply on new concrete whilst wet

Technical Data and Properties

Specific Gravity	1.3 ± 0.1 gm / cc
Abrasion	ASTM C779 (minimum 30% increase in a abrasion resistance than untreated)
Impact	Excellent
Hardening	ASTM C39 minimum 35% increase in compressive strength
Curing	Minimum 90% greater moisture retention during initial curing

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 concrete should be sound and without 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 FH makes sure that the surface is absolutely dry.

Priming:

Priming is not required

Mixing: Stir the Mixtop FH before application

Application: Spread evenly over the surface to be treated. Work in small areas initially until experience is gained on work rates. Spread the floor hardener evenly, using a broom or squeegee to ensure maximum coverage and penetration. Any Mixtop FH not absorbed should be removed

A second treatment should be carried out after 24 hours in case of old floors if required. Consumption rates will fall with subsequent treatments. Some very porous floors may require three treatments. The floor should be washed down with clean water 48 hours after sealing and before use. The floor may be lightly trafficked during sealing.

Points to be noted:

- Carry out trials on coloured concrete to ensure the finish achieved is acceptable.
- Remove existing paints and coatings from wall before starting application
- Take care of construction and expansion joints in the floor
- On old floors, ensure the floor is structurally sound before application, Mixtop FH is not suitable weak or friable floors



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Coverage

4-5 m² / Ltr

Cleaning

Clean the tools immediately after use with water

Storage

Store in closed containers and avoid direct sunlight.

Packing & Storage

Mixtop FH is available in 20 ltr 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 FH 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 PyChem product.

Technical information given in this data sheet is true and exact to the best of our knowledge, laboratory upshot and hand-on application. 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 and porosity of substrate may impinge on values



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