MONNELI EPOFLOOR HM

High Performance Epoxy Floor Screed

Product Description

A three component non shrink epoxy resin based mortar screed, used for industrial flooring. It is designed for application at a nominal thickness of 5-10 mm and above. It is used where high mechanical and general chemical resistant is required for flooring. It is also suitable for use as a coving or repair mortar.

Uses

EPOFLOOR HM is used for industrial flooring where high mechanical or chemical resistance, ease of cleaning, and maintaining hygiene are required.

The product can be used for the following:

- Food and beverage industry
- Warehouses
- Heavy engineering industrial floors
- General repairs in floors subject to heavy traffic

Advantages

- Excellent resistance against abrasion and intense transit
- Excellent mechanical resistance with high compressive, flexure strength
- Excellent general chemical resistance against solutions of acids, alkali, salts, oils, fuels and solvents
- Slip resistant surface for safe trafficking
- Durable with long life protection which saves regular costly maintenance
- Bonding strength with substrate which is greater than concrete cohesive strength

Instructions for Use

Surface Preparation

The surface of the concrete to be repaired shall be sound, clean and uncontaminated.

This preparation shall be such as to leave a sound exposed concrete surface free from dust, loose particles and any deleterious matter. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Excess laitance deposits are best removed by light mechanical scrabbling, grinding or grit/captive blasting followed by vacuum cleaning to remove dust debris.

Cracks shall be treated with EPOFINISH F, a solvent free epoxy resin repair mortar. Expansion joints shall be repaired using EPOMORT HS, a High strength solvent free epoxy mortar.

Concrete floor should be totally dry. Protect the substrate from any danger of humidity rising.

New concrete or cementitious surfaces should be allowed to cure and have moisture content not exceeding 5%. Old or existing floor should be refurbished mechanically to ensure clear sound substrate.

Priming

All surfaces must be treated with PRIMER POXY FF, high performance solvent free epoxy primer.

The primer should be applied by brush or roller on to the cleaned surface area (particularly hidden surfaces) at a rate of 5-6 m²/Liter.

A second coat of primer may be required if the substrate is excessively porous.

Mixing

EPOFLOOR HM is supplied in 3 pre-weighed packs (Base, Hardener, and graded filler) ready for immediate on site mixing. It is recommended that the kits, not be used partially. Mixing should be carried out using a force action mixer or a heavy duty, slow speed drill fitted with a mixing paddle.

Add the hardener (Part B) to the Base (Part A) container and mix for 30 seconds. The contents of the graded filler pack (Part C) then should be slowly added while mixing for further 3-4 minutes until a uniform and homogenous lump free material is achieved. Scrape the side and bottom of the container while mixing.

Once mixed, the material must be used within its pot life.

Application

Discharge the mixed mortar on the floor when the primer is still in a tacky condition. Spread and compact the mortar with a wooden trowel to get a uniform thickness and close the surface with a stainless steel trowel.

Particular attention should be given to areas around obstruction and protrusion making sure that all surfaces are covered.

Cleaning

Tools and equipment should be cleaned with SOLVENTE 10 immediately after use. Harden material should be remove mechanically. Spillages should be absorbed with sand or sawdust and disposed of in accordance with local regulations.

Recommendations

- EPOFLOOR HM should not be applied at temperatures below +5°C and above +35°C.
- EPOFLOOR HM should not be applied to asphalt, weak or friable concrete, PVC tiles or sheet.
- EPOFLOOR HM should not be applied if the surface relative humidity is more than 75%.

Consumption

2kg/m² per 1 mm thickness

Packaging

Containers of 28kg (including base, hardener & aggregate)

Technical Data

Properties	Results
Color	Grey
Density at 25°C	2.0 kg/L
Pot-life time at 25°C	60 minutes
VOC	9.0 g/L
Tensile strength (ASTM C 307)	11 N/mm²
Compressive strength (ASTM C579)	> 80 N/mm²
Flexural strength at 7 days (ASTM C580)	>25N/mm²
Adhesion to concrete (ASTM D 4541)	> 2.0 N / mm²
Abrasion resistance (ASTM D4060)	0.47 mg/1000 cycles
Impact resistance (ASTM D2794)	0.586 Kg-m
Open to foot traffic at 25°C	After minimum 24 hours
Open to vehicular traffic at 25°C	After minimum 48 hours

All values are subject to 5-10 % tolerance

Storage

Keep in tightly closed containers and in sheltered and dry place. Shelf life is 12 months if stored as recommended.

Health & Safety

During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment. Avoid contact with skin, eyes and inhalation of vapor. Ensure proper ventilation at working place.

In case of contact with skin, rinse with water and again wash thoroughly with soap and water.

In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly.

If ingested, obtain medical attention immediately. Do not induce vomiting.

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