

MONNELI EPOFLOOR FC

Fast Cure Solvent-Free Epoxy Topcoat for Concrete Floor

Product Description

A solvent free coating based on formulated epoxy resin and curing agents specially selected for their ability to be applied and cured in cold temperatures.

Uses

EPOFLOOR FC has a high gloss finish and is used in various installations such as:

- Commercial and residential car parking
- Workshops
- Warehousing and storage facilities
- Chemical and pharmaceutical factories
- Food factories and slaughterhouses
- Schools and office buildings
- General re-profiling over large areas

Components

- EPOFLOOR FC contains resin (Component A) and hardener (Component B):
- EPOFLOOR FC resin (Component A) is a low viscosity standard coloured base which contains fillers and pigments.
- EPOFLOOR FC hardener (Component B) is a low viscosity and low color hardener which, after mixing with the base, is less-yellowing and can be applied at 75% humidity. The hardener provides excellent chemical and abrasion resistance.

Instructions for Use

Surface Preparation

The concrete must be at least 28 days old. The concrete must be free from loose matter, oil and dirt before starting surface preparation.

The best method to prepare the surface is dry grinding using a specialized planetary grinder. Before grinding, the surface must be free from any degreasing or cleaning chemicals which may have been used. At the end of grinding, the surface should be flat.

Surface irregularities and blow holes shall be repaired with EPOFINISH FC. When the filler is hardened, grinding and leveling of the patched area is recommended to ensure a good finish.

Ensure dust is removed from the surface using an industrial vacuum.

For best finish and adhesion, treat the surface with PRIMER POXY (FC). In case the surface is very absorbent, apply a second coat of primer within the allowed recoating time.

Application thickness

- A thickness of 200-500µm per coat over a primer is recommended.
- For anti-slip finish, broadcast Silica Sand with the required size onto the first coat while wet, once cured, remove excess sand and apply the final coat.

Application

Items Nedeed

- Multi-speed drill fitted with a mixing paddle
- Good quality medium haired non-shedding roller, suitable for epoxy application. Ensure that all loose hair on the roller have been removed before use.
- 7" flat trowel
- Clean bucket, 2" brush and SOLVENTE 10 to clean the equipment

Method

Using a drill and a paddle at low speed, stir the resin (Component A) for 1 minute.

Slowly add the hardener (Component B) and increase mixing speed. Mix for 3-4 minutes, ensuring proper mixing between the resin and the hardener components, until a completely homogeneous streak free mix of uniform color is obtained.

The best method to apply the mixed product is by pouring it over the prepared surface. Then using a flat trowel, spread the material uniformly over the surface and back roll it maintaining the recommended thickness. Using just the roller is also possible.

Cleaning

Clean equipment with SOLVENTE 10. In case of spillage, use fine silica or cement to absorb the spill and dispose of according to local regulations.

Packaging

EPOFLOOR (FC) is supplied as a pre-measured kit depending on the customers' requirements. Our standard packaging is 4 liter kit.

Storage

Keep in tightly closed containers and in sheltered and dry place with a temperature between +5°C and +35°C. In these conditions, it maintains its characteristics unchanged for 12 months.

Health & Safety

Study the MSDS of the product before use or storage.

EPOFLOOR FC is not regulated per the "Directive 67/548/EEC EU Dangerous Materials List" so no special labeling is needed.

Technical Data

Properties	Results
Solid content	100%
Recommended DFT / coat	200-500 microns
Kit size	4 Liter
Theoretical coverage	8-20 m ² / 4 liter
Pot life at 7°C	60 minutes
Pot life at 18°C	30 minutes
Thin film (125µm) Dry time at 7°C	15 hours
Thin film (125µm) Dry time at 18°C	5 hours
Mixing ratio HARDENER: BASE (by weight)	0.95 : 4.60
Mixed density at 20°C	1.38 kg/L
Max recoat/Topcoat time at 7°C	24 hours
Max recoat/Topcoat time at 18°C	6-8 hours
Application maximum relative humidity	75 %
Compressive strength (ASTM C579)	> 80 N / mm ²
Bending strength (ASTM C580)	> 28 N / mm ²
Tensile strength (ASTM C307)	> 14 N / mm ²
Bond strength to concrete (ASTM D4541)	> 2.0 N / mm ²
Taber abrasion (ASTM D4060 CS17 Wheels)	60 mg loss/ 1000cycles
Water absorption (ASTM D413) (maximum)	0.001%
Porosity with no sealer NACE Sand TM-01-74	0
Hardness shore D	85

All values are subject to 5-10 % tolerance

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