

MONNELI EPOFLOOR SL (IFT)

Solvent-Free Epoxy Self-Leveling Topping (2.0-4.0mm) for Concrete Floors

Product Description

A solvent free self-leveling floor topping based on formulated epoxy resin, and curing agents and silica sand specially selected for their ability to be applied and cured in warm temperatures.

Uses

EPOFLOOR SL (IFT) has a high gloss finish and is used in various installations such as:

- Airport hangars
- Commercial and residential car parking
- Workshops
- Warehousing and storage facilities
- Chemical and pharmaceutical factories
- Food factories and slaughterhouses
- Schools and office buildings
- Showrooms

Components

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

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 IF.

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 IF. In case the surface is very absorbent, apply a second coat of primer within the allowed recoating time.

Application Thickness

- A thickness of 2-4 mm per coat over a primer is recommended.

Application

Items Needed

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

Method

Adjust the rake to the desired thickness.

Using a drill and a paddle at low speed, stir the resin (Component A) for 1 min. Slowly add the hardener (Component B) and increase mixing speed. Mix for 1-2 minutes, ensuring proper mixing between both components A & B.

Slowly add the sand (Component C) and increase mixing speed. Mix for 1-2 minutes till a homogeneous streak free product is obtained.

Pour the mix onto the floor immediately and spread using the rake. After about 5 minutes use the spike roll to remove all entrapped air.

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 SL (IFT) is supplied as a pre-measured kit depending on customers' requirements. Our standard packaging is 4 Liter & 15 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 SL (IFT) 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	2.0 – 4.0mm
Kit size	4 Liters
Theoretical coverage	1.0 – 2.0 m ² / 4 liter kit
Kit size	15 Liters
Theoretical coverage	3.75– 7.5 m ² / 15 liter kit
Pot life at 18°C	90 minutes
Pot life at 30°C	40 minutes
Thin layer (3mm) Dry time at 25°C	5-6 hours
Mixing ratio HARDENER: BASE: (by weight)	1.0: 4.834 : 4.231
Mixed density at 20°C	1.8kg/L
Max recoat/topcoat time at 25°C	24 hours
Application maximum relative humidity	75 %
Compressive strength (ASTM C579)	> 80 N / mm ²
Bending strength (ASTM C580)	> 20 N / mm ²
Tensile strength (ASTM C307)	> 12 N / mm ²
Bond strength to concrete (ASTM D4541)	> 2.0 N / mm ²
Taber abrasion (ASTM D4060 CS17 Wheels)	60 mg loss / 1000 cycles
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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