

MONNELI PRIMER POXY FC

Fast Cure Solvent-Free Epoxy Primer for Concrete Floors

Product Description

A solvent free primer based on formulated epoxy resin and curing agents specially selected for their ability to be applied and cured in cold temperatures, on dry or damp concrete.

Once the PRIMER POXY FC cures, the concrete surface becomes much harder allowing application on weaker concrete possible.

Uses

PRIMER POXY FC prepares bare porous and nonporous concrete surfaces to be top coated with epoxy or polyurethane topcoats 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

Composition

PRIMER POXY FC contains resin (Component A) and hardener (Component B).

PRIMER POXY FC resin (Component A) is a low viscosity resin that is clear containing no fillers or pigments.

PRIMER POXY FC hardener (Component B) is a low viscosity Hardener which, after mixing with the resin, can be applied at 100% humidity and on damp surfaces.

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.

Application Thickness

A thickness of 50-100µm per coat is recommended. In case the concrete is very porous, apply a second coat of PRIMER POXY FC.

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" flat squeegee
- 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 min.

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 mix is obtained.

The best method to apply the mixed product is by pouring it then using the flat squeegee to push the product on to the surface. Using just the roller is also possible, keeping in mind that the pot life is very short.

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

PRIMER POXY FC is supplied as a pre-measured kit depending on the customer's requirements. Our standard packing 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. PRIMER POXY 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	50-100 microns
Kit size	4 Liter
Theoretical coverage	40-80 m ² / 4 liter
Pot life at 7°C	50 minutes
Pot life at 18°C	25 minutes
Thin film (75µm) Dry time at 7°C	12 hours
Thin film (75µm) Dry time at 18°C	3 hours
Mixing ratio HARDENER: BASE: (by weight)	1.15 : 3.25
Mixed density at 20°C	1.10 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	100 %
Bond strength to concrete (ASTM D4541)	> 2.0 N / mm ²
Water absorption (ASTM D413) (maximum)	0.001%

All values are subject to 5-10 % tolerance

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