

## MONNELI PRIMER POXY (IF)

*Penetrating Solvent-Free Epoxy Primer for Concrete Floors*

### Product Description

PRIMER POXY (IF) is a solvent free primer based on formulated epoxy resin and curing agents specially selected for their ability to be applied and cured in warm temperatures, on dry or damp concrete.

Once the PRIMER POXY (IF) hardens, the concrete surface becomes much harder allowing application on weaker concrete possible.

### Uses

PRIMER POXY (IF) 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

### Components

PRIMER POXY (IF) contains resin (Component A) and hardener (Component B):

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

PRIMER POXY (IF) hardener (Component B) is a low viscosity hardener which, after mixing with the resin, can be applied at 95% 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 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.

### Application Thickness

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

#### 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 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 mixture is obtained.

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

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

## **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 IF is supplied as a pre-measured kit depending on the customer's requirements.

Our standard packaging is 4 Liter and 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.

PRIMER POXY (IF) is not regulated per the "Directive 76/548/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 15 Liters
Theoretical coverage	150-300 m <sup>2</sup> /15 liter kit
Pot life at 18°C	50 minutes
Pot life at 30°C	30 minutes
Thin film (75µm) Dry time at 25°C	5-6 hours
Mixing ratio HARDENER: BASE: (by weight)	1.0: 1.67
Mixed density at 20°C	1.10 kg/L
Max recoat/ Topcoat time at 25°C	24 hours
Application maximum relative humidity	95%
Bond strength to concrete (ASTM D4541)	>2.0N / mm <sup>2</sup>
Taber abrasion (ASTM D4060 CS17 wheels)	55mg loss /1000 cycles
Water absorption (ASTM D413) (maximum)	0.001%
Porosity with no sealer NACE Sand TM-01-74	0
Hardness shore D	80

All values are subject to 5-10 % tolerance

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