MONNELI PRIMER POXY (IF)

Penetrating Solvent-Free Epoxy Primer for Concrete Floors

Description

BETOFINISH F is a cementitious polymer modified mortar composed of high resistance cements, silica sand and special additives. It is designed to give thin layers to produce a fair faced appearance, to concrete or masonry surfaces. When mixing with water the product becomes easily workable mortar applicable horizontally, vertically and overhead. BETOFINISH F is applicable for coatings that are 3 mm thick or less,

Advantages

- Excellent bond to all concrete supports
- Requires only on site addition of water
- High impact resistance and excellent adhesion to concrete
- Smooth, easily producing fair faced finish
- After hardening it creates an impermeable layer, resistant against atmospheric gas, frost and thaw cycles
- Resistant against salts, chloride and chemical attack
- 2 cm layer of hardened product is resistant against CO_2 diffusion in the same degree as an 80 cm layer of concrete
- No chloride content
- Fully compatible with other Colmef Repair Products

Uses

BETOFINISH F is designed for applications on concrete or masonry surfaces:

- To produce a smooth fair faced surfaces prior to applying decorative coating
- As a general re-profiling layer over large areas
- For filling pinholes or porous surfaces prior to over coating
- As a minor repair product for defected concrete elements
- For cosmetic repair fairing coat after a major concrete repair is executed in association with any of Colmef cementitious concrete repair products

Instructions for Use

Surface Preparation

The support must be perfectly cleaned, free from dust, inconsistent parts, traces of form stripping oils, efflorescence, rust etc. Saturate the surface with water to eliminate possible water absorption at the moment of application.

Mixing

To prepare the mortar, pour 7.50 liters of water into a clean container and add slowly the content of BETOFINISH F (25kg). Mix using spiral paddle in slow speed heavy duty drill for few minutes till a homogeneous lump free consistency mix is achieved. Always add powder to water and not the other way around.

Application

Apply BETOFINISH F manually with spatula or steel trowel with a maximum thickness of 3 mm per coat. The product can be applied in more than one layer. Leave the surface rough if the application of following layers is needed.

Only the last coat can be smoothed with sponge trowel few minutes after the application. If surface dries too fast during the smoothing, it can be dampened by water spraying to facilitate the trowel application. Care should be taken not to overwork the surface.

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PRIMER POXY IF

Technical Data Sheet
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When high mechanical resistant thin plaster is required, BETOFINISH C must then be reinforced with a special fibers tissue.

Curing
Curing is not generally needed however under extreme conditions - high temperature and drying winds, BETOCURE AR shall be used as a curing compound.

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.

Metal surface must be perfectly cleaned up to white metal by sand blasting. Application of PRIMER POXY IF should be done immediately before flash rusting occurs.

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

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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.

Technical Data

Properties	Result
Solid Content	100%
Recommended DFT / coat	50-100 microns
Kit Size	4 Liters
Theoretical Coverage	40-80 m^2 / 4 liter kit
Kit Size	15 Liters
Theoretical Coverage	150 - 300 m^2/15 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)	> 2.0 N / mm^2
Taber Abrasion (ASTM D4060 CS17 Wheels)	55 mg loss/1000cycles
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

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.

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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 and Safety

Study the MSDS of the product before use or storage.

PRIMER POXY (IF) is not regulated per the "Directive 67/548/EEC EU Dangerous Materials List" so no special labeling is needed

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