



TWO-COMPONENT EPOXY BASE PRIMER.



### PRODUCT DESCRIPTION

Epo Primer F is a two-component, fillerized epoxy resin-based primer applied with a roller, metal trowel or smooth trowel. Epo Primer F may be used as it is or mixed with Quartz 0.5 to improve adhesion of resin coating systems and even out surfaces. Thanks to its special formulation, Epo Primer F is characterised by its ability to penetrate into substrates and may even be applied on moderately damp surfaces.

### FIELD OF APPLICATION

- Adhesion promoter for epoxy and polyurethane coating products in general.
- Adhesion promoter for self-leveling and multi-layered coating products.
- Adhesion promoter for flooring made from synthetic mortar.
- Fluid adhesive to seal cracks and make structural bonds.

### SUITABLE SUBSTRATES

- Cement Mortar Bed
- Cement Plaster
- Cement Terrazzo
- Concrete
- Concrete and Brick Masonry
- Gypsum screed.

### LIMITATIONS

- Do not apply on substrates with rising

damp

- Do not dilute with solvent or water.
- Do not apply on dusty, crumbling or weak substrates.
- Do not apply on substrates with oil or grease stains or stains in general.
- Do not mix partial quantities of the components to avoid mixing errors.
- Do not expose the mixed product to sources of heat.
- If rooms where the product is being used need to be warmed use electric heaters only.
- Protect the product from water for at least 24 hours after application.
- Do not apply on substrates with moisture content higher than 4% or with capillary rising damp.
- The temperature of the substrate must be at least 3°C higher than the dew-point temperature.

### APPLICATION PROCEDURE

#### A) *Preparing the substrate*

The surface of concrete floors must be preferably dry or slightly damp, clean and sound and have no crumbling or detached portions. The substrate concrete must have a compressive strength of at least 25 N/mm<sup>2</sup> and a minimum tensile strength of 1.5 N/mm<sup>2</sup>. The strength of the substrate must also be suitable for its final use and the types of load to which it will

be subjected. The level of moisture in the substrate must be a maximum of 4% and there must be no capillary rising damp. The surface of the floor must be prepared with a suitable mechanical process to remove all traces of dirt, cement laitance and crumbling or detached portions, and to make the surface slightly rough and absorbent. Concrete surfaces impregnated with oil and grease must be thoroughly cleaned with a 10% solution of water and soda or detergent soap and then rinsed several times with plenty of clean water. Remove any water from the surface and wait until the level of residual moisture is no higher than 4%. If the oil or grease has penetrated deeper into the substrate, on the other hand, all the affected concrete must be removed by scarifying and repaired with a three-component epoxy mortar.

#### ***B) Preparing the product***

The two components must be mixed together just before application. Mix component A thoroughly and add the contents of component B. Add up to 50% by weight of quartz sand. Mix again with an electric mixer at low speed to prevent entraining air into the mix for at least 2 minutes until the mix is completely blended. Apply the mix within the pot life indicated. Higher surrounding temperatures will reduce the pot life of the mix, while lower temperatures will increase its pot life.

#### ***C) Preparing the product***

Apply a coat of neat Epo Primer F or mixed with Quartz 0.5 on the substrate after it has been prepared as specified with a straight trowel. Then broadcast with Quartz 0.5 – according to the kind of system to be realized – to ensure the next coat of resin adheres perfectly. Make sure there are no open pores in the surface of the substrate, otherwise air bubbles could escape from the substrate and form pinholes in the coating system to be applied. This is particularly important when applying self-leveling resin or cementitious systems.

### **COVERAGE / CONSUMPTION**

The consumption of EPO PRIMER F depends on the absorption and porosity of the substrate. Typical consumption is between 400 and 600 gr/m<sup>2</sup>.

### **PACKAGING**

Epo Primer F is supplied in:

- 5 kg plastic can
- 20 kg plastic can.

### **SHELF LIFE-STORAGE**

Original sealed packaging of this product is guaranteed to be of first quality for 24 months if stored in a dry area. The high humidity will reduce the shelf life of the bagged product.

### **SAFETY INSTRUCTION**

EPO PRIMER F component A and B are highly inflammable. We recommend storing it away from heat and sparks, to avoid smoking, to prevent the build-up of electrostatic energy and to work in well ventilated areas. Furthermore, it is irritant for the eyes and the skin, and it may also cause sensitization in contact with the skin of predisposed subjects. The product contains low molecular weight epoxy resins that may cause sensitization if cross-contamination occurs with other epoxy compounds. EPO PRIMER F component A may cause drowsiness and dizziness. We recommend the use of protective gloves and goggles and to take the usual precautions for handling chemicals. If the product comes into contact with the eyes or skin, wash immediately with plenty of clean water and seek medical attention. We recommend working in well ventilated areas. In case of poor ventilation, we recommend wearing the mask with filters. The product is dangerous for aquatic life. Do not dispose of it in the environment. For further and complete information about the safe use of our product please refer to the latest version of our Material Safety Data Sheet. **PRODUCT FOR PROFESSIONAL USE**

## TECHNICAL DATA

| Product identity                          |               |             |
|-------------------------------------------|---------------|-------------|
|                                           | Component A   | Component B |
| Consistency                               | Liquid        | Liquid      |
| Color                                     | Transparent   | Transparent |
| Density (kg/m <sup>3</sup> )              | 1550          | 1000        |
| Viscosity (mPa·s)                         | 3000          | 500         |
| Dry solids content                        | 70            | 100         |
| Application data (at +23°C and 50% R.H.)  |               |             |
| Dilution                                  | 4             | 1           |
| Pot life                                  | 1 hour        |             |
| Application temperature                   | +5°C to +35°C |             |
| Adhesion strength (N/mm <sup>2</sup> )    | 3.5           |             |
| Compressive strength (N/mm <sup>2</sup> ) | 65            |             |
| Shore D hardness                          | 80            |             |



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