



# PRIMAPOX®



## PRIMAPOX® 100 BARRIER

Vapour barrier epoxy primer

**PRIMAPOX® 100 BARRIER is a two-component solvent-free epoxy system, 100% solids. Indicated to apply as a primer to block humidity by capillarity or as vapour barrier.**

### Properties

- Applicable over damp concrete.
- Applicable over tiles, to prevent the tracing of the joints on the microcement.
- Applied with roller or trowel.
- Easy to work with and low viscosity.
- Excellent adhesion to surface.

### Preparation

Preparation of the substrate:

The substrate for application must be consolidated and free of dirt, it may be damp but not puddled.

Shake component A before use. Prepare the mixture by incorporating component B on top of component A while mixing at low speed with a mechanical stirrer, in order to avoid occlusion of air in the product. Stir for 2 - 3 minutes. Always respect the mixing ratio.

(62,5 g Component A : 37,5 g Component B)

The surface must be dry, free of dirt, dust and grease. Do not apply at temperatures equal to or lower than 15°C, nor at humidity values higher than 65%.

### Consumption

Depends on the intended use and application, roughness and porosity of the substrate.

Generally:

- 0,3 - 1 kg/m<sup>2</sup>

### Technical data

- Solid weights: 100%
- Viscosity (DIN 53 015): 600 - 800 mPa·s
- Mix proportions: 62,5 g Component A : 37,5 g Component B
- Adhesive strength (DIN EN 13578): at 8°C and 60% RH\*
  - Average value: 3,7 N/mm<sup>2</sup> (required >1,5)
  - Breakpoint 80% concrete (required >75%)
- Adhesive strength (DIN EN 13578): a 23°C y 60% RH\*
  - Average value: 2,1 N/mm<sup>2</sup> (required >1,5)
  - Breakpoint 100% concrete (required >75%)
- Accessible: 8 hours at 25°C
- Pot-life (20°C): 20 minutes.

Applied for capillarity:  
Blistering\*\* (DIN EN 53209): at 8-23°C y 60% RH\*  
No blistering

\*RH: relative humidity  
\*\*Blistering

## General characteristics

- Solubilidad completa en hidrocarburos aromáticos, alcoholes, ésteres y cetonas. Insoluble en agua.
- Producto no inflamable.

## Characteristics Component A

- Type: Epoxy resin
- Appearance: Liquid
- Colour: Transparent, Slightly yellow
- Density (DIN 53 217, T4): 1,13 g/cm<sup>3</sup>
- Mass equivalent (DIN 16945): 180-200 g/eq
- Viscosity (DIN 53 015): < 0,5 mm

## Characteristics Component B

- Type: Polyamide amide hardener
- Appearance: Liquid. Transparent, amber
- Density (DIN 53 217, T4): 1,02 g/cm<sup>3</sup> (23°C)
- Mass equivalent (DIN 16945): 115 g/eq (calculated)
- Viscosity (DIN 53 015): 600-1400 mPa•s

## Application

PRIMAPOX® 100 BARRIER can be applied in two different ways and it is used as vapour barrier and capillary moisture barrier. Applications and consumptions are different.

Vapour barrier:

Apply two coats of PRIMAPOX® 100 BARRIER with a short pile roller or trowel. Let the first layer dry 24 hours.

- 0,3 kg/m<sup>2</sup> on non-porous surfaces (tiles)
- 1 kg/m<sup>2</sup> on porous surfaces (concrete)

PRIMAPOX® 100 BARRIER prevents marking in the Microcement if there are two materials with different absorption rate. When applying microcement on tiles, it avoids the reproduction of the joints.

Capillary moisture barrier:

PRIMAPOX® 100 BARRIER prevents capillary moisture problems on surfaces and thus microcement can be applied. To ensure the barrier properties it will be essential that the surface is in condition, clean and consolidated.

It can be applied on damp surfaces but it can't be applied on saturated surfaces.

- Apply PRIMAPOX® 100 BARRIER with a roller: 0,35 kg/m<sup>2</sup>
- Sprinkle dry silica sand 0,3 - 0,8 mm to 1kg/m<sup>2</sup>
- Let it dry 24 hours.
- Remove the excess silica sand by sweeping and vacuuming.
- Apply PRIMAPOX® 100 BARRIER with a trowel 3 kg/m<sup>2</sup>

This application and system requires a total of 3,35 Kg/m<sup>2</sup> of PRIMAPOX® 100 BARRIER.

## Special precautions

During the end of the time of use of the mixture and due to its strong reactivity, an increase of heat will be developed.

The heat will be higher when the quantity of product that remains in the container is greater.

Due to the short pot-life, we recommend to mix it in small quantities according to the experience of the applicator. In the first application, make a first test mixing 1kg.

Exclusive product for professional use.

Causes severe skin burns, skin irritation, it may cause an allergic skin reaction. Causes severe eye irritation. In case of contact with eyes, wash immediately with plenty of water during 15 minutes and seek medical attention. In case of contact with skin wash with soap and water. Never use solvents or thinners. Do not ingest. If swallowed, do not induce vomiting and seek medical attention immediately.

It is recommended to comply with the following measures:

- Good ventilation.
- Safety glasses.
- Rubber gloves.
- Use of mask with chemical absorbent.

Empty containers must be disposed of in accordance with current local regulations.

Toxic for the aquatic organisms, with lasting noxious effects.

To prevent the product from drying or thickening, close the lid after each use.

## Packaging

Available in:

- 3,1 kg Component A + 1,9 kg Component B
- 12,4 kg Component A + 7,6 kg Component B

## Cleaning of tools

The tools used during the application can not be reused. Use disposable tools.

## Storage conditions

The product should be stored in its closed original packaging, protected from weather conditions at temperatures between 10°C and 30°C in a dry and well ventilated place, away from direct heat and sunlight. Shelf life is 1 year from the date of production, if stored in well-preserved conditions.



The product should not be used for purposes other than those specified without first having instructions in writing. It is always the user's responsibility to take suitable measures in order to comply with the requirements established in local legislation. Product safety sheets are available for professionals. This technical data sheet will be valid until a new edition appears.

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