



## Self-levelling epoxy resin

### DESCRIPTION

Two-component formulation for incorporation based on modified epoxy resins and special additives, transparent, low viscosity, low yellowing. Hardening occurs by polyaddition reaction without any shrinkage phenomenon. Environmental factors during hardening can cause imperfections in the polymerized film such as chipping, surface roughness, small swellings, which however do not affect the chemical-physical characteristics of the product in any way. The material is impervious to steam, water, fuels, to lubricants and also has a high chemical resistance to basic and slightly acidic solutions. For indoor use.

### MAIN PROPERTIES

- Transparent fluid self-levelling for horizontal surfaces
- It has a fire reaction class according to EN 13501-1: Efl



### TECHNICAL DATA

Film aspect EN 13300	Glossy (> 60 gloss 60°)
Thickness EN 13300	Class A, fine (< 100 µm)
Adhesion on concrete (EN 1542)	3.1 ± 0.2 MPa
Classification (UNI 8681 / UNI 8682)	Thick, chemical-reactive hardening epoxy formulation. (C.4.D.2.C.DA)
Specific weight	(A+B): 1080 ± 50 g/l
Type of binder	Epoxy (UNI 8681:DA)
Solid content	(A+B): 100%
Catalysis ratio (weight)	A: B = 1.9 : 1
Maximum application thickness	2mm per coat
Drying time	Dust dry: 6 hrs Walkability: 72 hrs Full hardening time: 7 days
Pot life	Approx. 30 min
	71 ± 2
	14 ± 1
	12 ± 1 µm (AR0.5)
	4.0 ± 0.4 (IR4)
Volatile organic compounds (VOC)	For interior use: Cat S/j; limit 500 g/l (2010). This product contains a maximum of 157,00 g/l of VOCs.

### CHARACTERISTICS

Coverage	1.1 kg/m <sup>2</sup> per mm of thickness
Overpaintable	After 24 hours, and not more than 36 hours, with any other film-forming product. After 36 hours, careful sanding is required.
Colour range	Transparent
Dilution	Ready to use

### APPLICATION

#### Notes:

The useful life time of the dough (pot-life) of a mass of 300 g of A+B is 33 minutes. For larger product volumes and with higher installation temperatures, the chemical reaction accelerates and this makes the hardening faster and increases the amount of

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heat produced by the dough. EPOPLAST 61 possesses a good general reactivity at the temperatures of the support of laying between +18 and +35 C. Below the +18 certain, the crosslinking speed decreases and increases the risk of carbonation phenomena altering the final surface appearance of the product. Above +35 is C: the product is very fluid, but the time of use becomes much shorter. In this case the heat produced by the chemical cross-linking reaction could cause yellowing and loss of transparency of the hardened mass. For this reason, it is necessary to avoid that the environments where the resin will be applied reach this temperature even locally, for example by screening any windows or light points for at least 72 hours after casting.

## **Suitable Substrates:**

Flooring, applicable as a transparent topcoat on all normal substrates

## **Ambient Conditions:**

Application temperature: +18°C to +35°C for at least 72 hours from the moment of casting.

## **Preparation of the Substrate:**

Carefully examine the installation support to make sure it is a suitable and structurally sound base. Industrial quartz concrete can be coated after scarifying, shot peening, polishing with a diamond wheel or acid washing, with a maximum humidity rate of 4% (according to ASTM D4944 or UNI 10329, carbide method).

Tiled surfaces must be roughened with a grinding wheel equipped with a diamond cup. Smooth out any wide and deep joints with RASANTE BASE QUARTZO.

Sand and cement screeds must have:

- adequate maturation of at least 28 days;
- a residual humidity rate of 3 and 4%;
- a minimum compressive strength of 20 MPa.

Crack treatment:

Make cuts in the support orthogonal to the cracks and insert steel bars fixed with EPOXY STUCCO

Treatment of expansion joints:

Remove by stitching fixed steel bars fixed with EPOXY STUCCO

Concrete support treated with colored iron oxide:

Penetrate deeply or diamond sand until you reach the uncolored part of the concrete.

Concrete support with holes:

Repair holes or depressions deeper than 3 mm with EPOXY SCREED.

Apply and adjust with a short rod (1-1.5 metres).

On the basic support properly prepared as described, a decorative treatment is usually carried out.

The most frequent types of decorative elements that can be found are:

- three-dimensional objects to be incorporated (for example, coins, grains of cereals, glass balls, etc...);
- photos or images on non-absorbent supports (plastic or metal);
- artistic decorations made in situ;
- resin layers or paints.

In all these cases, before proceeding with the casting of EPOPLAST 61 it is necessary that the decorated support is sealed with EPOXY SCREED and the objects and images are fixed to the support, these precautions prevent air bubbles from escaping from the support during casting (blowing).

## **Type of Equipment:**

Serrated spatula for thick application.

## **Application Procedure:**

Pour component B into component A and mix thoroughly with a low speed mixer until the mixture appears homogeneous.

Apply EPOPLAST 61 with a notched trowel according to the desired thickness. It is recommended not to exceed a thickness of approx. 3 mm in one coat.

To achieve thicknesses greater than 3 mm, carry out successive castings of product 24 hours apart.

## STORAGE

## **Disposal and safety indications:**

Dispose of in accordance with local regulations.

For information on possible hazards, refer to the safety data sheet

## **Packaging:**

pack A: 4.75 kg

pack B: 2.5 kg

## **Storage:**

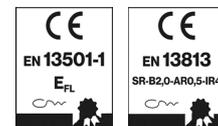
24 months when stored in undamaged packages at between 5 and 30°C; cannot endure frost and direct sunlight

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## TECHNOLOGIES/CERTIFICATIO



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