

# PAVIPLAST

COLORED SELF-LEVELING EPOXY  
FORMULATION (A+B)



## DESCRIPTION

Two-component product based on epoxy resins in combination with cycloaliphatic amine hardeners, for the realization of self-leveling, by Trowel and multilayer coatings.

PAVIPLAST can be applied by roller to create non-slip coatings and thick, waterproof and non-sparking paints.

## USE

Flooring of mechanical, food and chemical industries, warehouses and warehouses, laboratories and hospitals, shops, showrooms and apartments.

Waterproof protection of ducts and tanks.

## SUPPORT

The substrate must have a minimum compressive strength of 25 N/mm<sup>2</sup> and a tensile strength of 1,5 N/mm<sup>2</sup>.

## PREPARATION OF THE SUPPORT

**Concrete bases** must be solid, dry (seasoned if newly built), leveled, absorbent, not polluted by oils, detergents, powders or other substances.

Evaluate the most convenient type of mechanical preparation (sanding, shot peening or milling) and then apply a resumption of FLUIDEPOX. Any holes and slight anomalies can be repaired with PAVIRAPID.

**Tiled floors** should be sanded or shot peened to a completely opaque surface, then apply a shot of FLUIDEPOX PIASTRELLE with subsequent dusting of QUARZO B2.

Do not apply PAVIPLAST on damp substrates or those subjected to capillary rising damp (in this case, contact the Sivit Technical Service). The humidity of the substrate should not exceed 4%.

## APPLICATION

At the time of application, combine the two components in a single container and mix carefully for 2 minutes, using appropriate equipment (propeller drill).

Quickly use the entire contents of the container. When emptying the container avoid scraping the edges and the bottom, as there may be some product not perfectly blended.

## Use in Self-leveling Systems

After mixing the two components, add QUARZO B0 (0.8 kg per 1 kg of A+B) and stir.

The main application mode of PAVIPLAST is as "self-leveling". In this case it is necessary to spread the product with a 5 mm toothed trowel.

Within 5 minutes pass the breaker roller with slow and regular movements to even out the surface. The consumption for 2.5 mm thick is 2.2 kg/m<sup>2</sup> of (A+B) and 1.76 kg/m<sup>2</sup> of QUARZO B0.

## Use in Multilayer Systems

After mixing the two components, add QUARZO B0 and stir again. The amount of aggregate to be added is as follows:

- 0.8 kg per 1 kg of A+B, for Trowel Systems
- 0.5 kg per 1 kg of A+B, for Multilayer Systems

Spread the product with fan-shaped movements, taking care not to leave excess material and uniforming to fresh with roller. The consumption for each shot is:

- 0.35 kg/m<sup>2</sup> of (A+B) and 0.28 kg/m<sup>2</sup> of QUARZO B0, for by Trowel Systems
- 0.7 kg/m<sup>2</sup> of (A+B) and 0.35 kg/m<sup>2</sup> of QUARZO B0, for Multilayer Systems

## Use in Painting Systems

After mixing the two components, check the viscosity of the system, which varies greatly with temperature.

To obtain non-slip surfaces:

- apply a first shot of PAVIPLAST (for a consumption of 0.4 kg/m<sup>2</sup>) and then evenly sow 1 kg/m<sup>2</sup> of QUARZO B3
- after 12-36 hours, apply a second shot of PAVIPLAST (for a consumption of 0.5 kg/m<sup>2</sup>)

For thick painting:

- apply PAVIPLAST in two stages, for a total consumption of about 0.6 kg/m<sup>2</sup>

In case of painting, PAVIPLAST can be diluted with UNI Solvent, for a maximum of 3% by weight (A + B).

## TECHNICAL SPECIFICATIONS

| PRODUCT DATA  |   |
|---|---|
| Colour  | As per price list or on request according to RAL folder (for minimum batches of 200 kg)   |
| Consumption:<br>by trowel<br><br>as self-leveling                     | 0,35 kg/m <sup>2</sup> of (A+B) + 0,28 kg/m <sup>2</sup> of Quartz<br>2.2 kg/m <sup>2</sup> of (A+B) + 1.76 kg/m <sup>2</sup> of QUARZO B0 (for 2.5 mm thickness) |
| Specific gravity (at 25 °C):<br>mixture (A+B)<br>mixture (A+B) loaded | 1.25 +/- 0.05 g/ml<br>1,60 +/- 0,10 g/ml (with 80% QUARZO B0)   |
| Viscosity (at 25°C):<br>mixture (A+B)<br>mixture (A+B) loaded         | 800 +/- 170 mPa·s (spindle 2, rpm 30)<br>1,300 +/- 700 mPa·s (with 80% QUARZO B0, spindle 2, rpm 6)   |
| Dry residue (A+B)   | > 98%   |
| VOC ready to use (Legislative Decree 161/06)                          | < 200 g/l<br>Cat.A/j. High performance two-component paint (BS).  |
| Flash point   | > 100 °C  |
| Solvent for cleaning tools  | UNI Solvent   |
| Storage   | 12 months, store in a dry place at a temperature between 5 °C and 35 °C   |
| APPLICATION DATA AND TIMING   |   |
| Mixture ratio   | by weight: A=100, B=32<br>by volume: A=100, B=45  |
| Pot-life (50% R.H.)   | at 15 °C > 40 min<br>at 25 °C 30 min<br>at 35 °C > 20 min   |
| Dry to the touch (50% R.H.)   | at 15 °C 12-16 hours<br>at 25 °C 5-7 hours<br>at 35 °C 2-3 hours  |
| Walkable (50% R.H.)   | at 25 °C 12 hours   |
| Coverage (50% R.H.)   | at 25 °C 12 to 36 hours   |
| Trafficable (50% R.H.)  | at 25 °C 36 hours   |
| Hardening in depth (50% R.H.)   | at 25 °C 7 days   |
| Environmental conditions of use                                       | Temperatures between +15°C and +35°C, R.H. < 50% and media humidity < 4% (*)  |

| Coating maintenance                  | For cleaning operations use neutral detergents   |
|--------------------------------------|--|
| TECHNICAL PERFORMANCE DATA           |  |
| Appearance                           | Polished and planar  |
| Gloss (60°)                          | 95 (*)   |
| Abrasion resistance UNI 8298-9       | 70-80 mg (TABER Mola CS-17-1000 rpm - 1000 g weight)   |
| Compressive strength (UNI 4279)      | 60 N/mm <sup>2</sup>   |
| Compression module                   | 1,5 GPa  |
| Bending strength (UNI 7219)          | 59 N/mm <sup>2</sup>   |
| Tensile strength (ASTM D 638)        | 40 N/mm <sup>2</sup>   |
| Hardness (ASTM D 2240)               | 78 Shore D   |
| Adhesion (DIN ISO 4624)              | >1,5 N/mm <sup>2</sup>   |
| Linear thermal expansion coefficient | 20 x10 <sup>-6</sup> °C <sup>-1</sup>  |
| Chemical resistance                  | Contact Sivit Technical Service for detailed information                                     |
| CE marking (reg. n. 305/2011)        | Complies with EN13813:2004. Synthetic resin-based screed materials for use inside buildings. |
| BCA wear resistance (EN 13892-4)     | AR 0,5   |
| Impact resistance (EN 6272-1)        | IR 10  |
| Adhesion force (EN 12892-8)          | B2   |

(\*) PAVIPLAST applied at substrate temperatures below 15 °C could stain in contact with water, or with water-based preparations, and form whitish spots. Such a defect in chemical resistance is caused by incomplete cross-linking. Therefore, PAVIPLAST should be applied at a substrate temperature not lower than 15 °C and at least 3 °C higher than the condensation temperature.

## WARNINGS

PAVIPLAST coatings exposed to sunlight may fade or change color with color change towards yellow: this fact does not affect the performance of the coating in any way. Between different production batches of the same color there may be slight differences: when it is possible to use material from the same batch.

For low temperature applications, the material can be heated to 25 °C for easy application and catalysis (viscosity decrease).

**Product for professional use, the buyer undertakes to follow the above warnings in the application of the purchased product and the instructions in the safety data sheet.**