

WATERBORNE EPOXY COMPOUND

ECOPAVIPLAST® A+B+C

Water-based epoxy mortar

Three-component, water-based, semi-self-leveling epoxy mortar for leveling and reinforcing internal floors in the civil sector.



Description

Three-component product:

A - amine resin in aqueous vehicle

B - epoxy resin

C - pre-packaged based on aggregates and inorganic binders

By mixing the components, the polymerization reaction between the two resins is unblocked and at the same time the effect of organic additives begins. In this way the best features are developed:

- bottom attachment
- resilience
- hardening in the presence of moisture
- vapour permeability

Use

Industrial floors.

Floors of warehouses and commercial premises.

Shaving and infill of deteriorated floors.

Support

The substrate must have a minimum compressive strength of 25 N/mm² and a tensile strength of 1,5 N/mm².

Preparation of the support

Concrete bottoms must be solid, leveled, absorbent, not polluted by oils, dust or other substances. Check the most convenient type of mechanical preparation (abrasive, shot peening or milling) and then apply a shot of PAVIWATER T68. Oily surfaces must be deeply milled and treated by shaving with FLUIDEPOX (1 kg/m²) loaded with QUARZO B0; on the product just applied, sprinkle QUARZO B2 when waste (2 kg/m²). The same solution can be adopted to smooth out any irregularities of the substrate, such as the grooves left by milling, and to consolidate funds that do not guarantee solidity. N.B.: with this treatment the breathability of the coating is reduced.

Tile bottoms should be shot peened, then treated with a shot of FONDO PER PIASTRELLE. If the tiles do not give a guarantee of tightness, it is good to create a reinforcement, creating a fiberglass coating with FLUIDEPOX PIASTRELLE or ECOFONDO and glass mesh gr 100. Any tiles not anchored must be removed, restoring with ECOPAVIPLAST suitably loaded with QUARZO B3 (1 to 1 in weight).

Irregular surfaces can be flattened by shaving with ECOPAVIPLAST before casting.

Application

Prepare separately the mixture of the 2 liquid components

(A+B), pouring the contents of part B into the container of part A, and then mix with a drill.

Add the powders (part C) to the mixture (A+B) and mix with a mixer drill. To disperse the product optimally, it is necessary to pour the powders little by little, continuing to stir with the drill.

Spread the product quickly.

Product for professional use. The purchaser undertakes to strictly follow the above warnings when applying the purchased product and the instructions in the safety data sheet.

For thicknesses greater than 2 mm, corresponding to a consumption of 4 kg/m², distribute with a toothed trowel, uniforming the surface with a bubble breaker.

Finish superficially with 1 or 2 shots of PAVIWATER, for a consumption of 0.15-0.25 kg/m².

If ECOPAVIPLAST is to be coated with non-breathable mortars or paints, it is necessary to wait one day for each millimeter of thickness (with a temperature of 25 °C), in order to allow the evaporation of water.

Warnings

Different production batches of the same color may have small differences: where possible use material from a single production batch.

Some colors based on organic pigments (red, blue, green, intense yellows, ...) tend to give color if they are subjected to abrasion (dry or wet): in these cases it is advisable to protect the color with a transparent finish.

Technical specifications

PRODUCT DATA	
Colour	Grey 7038, Brown 8004, Green 6021, Light Blue 5012
Specific gravity (at 25 °C)	mixture (A+B): 1,85 +/- 0,01 g/ml (ref. RAL 7038)
Viscosity (at 25°C)	mixture (A+B): 21.000 +/- 4.000 mPascal (spindle 3, rpm 5, rif. RAL 7038)
Dry residue	87.5% by weight (ref. RAL 7038)
Flash point	None
Solvent for cleaning tools	Water
Storage	12 months, store in a dry place at a temperature between 5 °C and 35 °C

APPLICATION DATA AND TIMING	
Mixture ratio	A=28,5, B=17,2, C=100
Pot-life (50% R.H.)	at 5 °C 14 min at 25 °C 10 min at 30 °C > 7 min
Dry to the touch (50% R.H.)	at 5 °C 10-14 hours at 25 °C 4-6 hours at 30 °C 2.5-3.5 hours
Walkable (50% R.H.)	at 25 °C from 12 hours
Environmental conditions of use	Temperatures between +5 °C and +30 °C

TECHNICAL PERFORMANCE DATA	
Compressive strength (UNI 4279)	50 N/mm ² (hardening 28 days at 25 °C and 50% R.H.)
Bending strength (UNI 7219)	20 N/mm ² (hardening 28 days at 25 °C and 50% R.H.)

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