

WATERBORNE EPOXY COMPOUND

PAVIWATER® A+B

Waterborne epoxy paint

This is a water-dilutable product, specific for application in food environments: it complies with Legislative Decree No. 193/2007" EC Regulation 852/2004 concerning the hygiene of food products" (H.A.C.C.P.).

It allows easy cleaning of surfaces and offers high resistance to wear, water, alkaline solutions, detergents and hydrocarbons such as oil, diesel, petrol.

It can be used to color concrete floors, renew the color of old resin floors, finish epoxy or epoxy cementitious coatings, glaze wall bases.



Description

Two-component water-base colored finish (A + B) based on epoxy and amine resins , high solids content. Excellent wear resistance. Easy cleanability and sanitization of the surface. Good resistance to water, alkaline solutions, detergents and hydrocarbons, both high-boiling and low-boiling (oil, diesel, gasoline, etc.).

Compliant with Legislative Decree No. 193/2007 "EC Regulation 852/2004 concerning the hygiene of food products" (H.A.C.C.P.).

Use

Colored painting of concrete floors inside buildings. Finishing for epoxy cement or epoxy thick coatings. Suitable for food environments, as it is easy to clean and sanitize.

Regeneration of resin flooring coloring. Plinth coating of aseptic premises in the food industry, pharmaceuticals, hospitals, public areas.

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 bases must be solid, dry (seasoned if newly built), leveled, absorbent, not polluted by oils, detergents, disarming, powders or other substances. Evaluate the most convenient type of mechanical preparation (abrasiving or sanding). Holes and slight anomalies can be repaired in advance with PAVIRAPID or SIVITCOL.

Tiled floors must be abrasive or polished to a completely opaque surface. Existing resin coatings must be abrasive or polished, thus eliminating dust residues.

Absorbent or chalking cementitious surfaces should first be treated with PAVIWATER T68 or with a return of PAVIWATER diluted with 50% by weight of water.

Application

At the time of application, combine the two pre-dosed components in a single container. Mix carefully for 2 minutes, using appropriate equipment (drill with propeller) and taking care to clean the walls of the containers with a spatula in order to mix all the product.

Once the mixing phase is finished, respect the induction time by letting the product rest in the tin. Add the dilution water slowly and under stirring, stir the product for 1 minute and apply in a roller for a consumption of 0.130 kg/m² for each shot.



The product should be used after the induction time and within the time of use, according to the table below depending on the ambient temperature:

temperature 15 °C 25 °C 30 °C

induction time 25' 15' 10'

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.

Warning: avoid preparing partial mixtures of the product in order not to incur accidental errors, which could lead to a failure or complete hardening. If the induction and use times are not respected, there may be differences in the finish, highlighted by different colors and degrees of gloss.

As a finish, PAVIWATER should be diluted with 10% by weight of water, then applied in a roller by uniforming the surface with parallel movements.

For applications at low temperatures it is possible to dilute the formulation with a 1:1 mixture of water and ethyl alcohol. To obtain a non-slip surface, add 3-5% by weight of SFERETTE DI VETRO (FINI or GROSSE).

Keep the product stirring to avoid sedimentation.

PAVIWATER can also be applied "to smooth": in this case, add to the mixture 30% by weight of SFERETTE DI VETRO GROSSE and apply with american trowel, for a maximum consumption of 0.200 kg/m² of PAVIWATER.

Protect the applied product from moisture, condensation and water for at least 24 hours.

Warnings

Shades of yellow, orange or some reds may require several shots to obtain a good covering effect (in some cases an additional first shot of white color is recommended).

Different production batches of the same color may have small differences: where possible use material from a single production batch for each area to be treated.

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 (from the FINIWATER or FINISOL series).

Do not apply to plaster casts intended for humid environments (e.g. showers).

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Technical specifications

PRODUCT DATA	
Colour	On request RAL folder
Consumption	0,130 kg/m ²
Specific gravity (at 25°C): mixture (A+B) part A part B	1,48 +/- 0,05 g/ml 1,55 +/- 0,05 g/ml 1,10 +/- 0,05 g/ml
Viscosity (at 25 °C): mixture (A+B) mixture (A+B) diluted to 10%	3.500-4.000 mPa•s (spindle 2, rpm 5) 800-1.300 mPa•s (spindle 2, rpm 5)
Dry residue (A+B)	69% by weight and 54% by volume
VOC ready to use (Legislative Decree 161/06)	< 50 g/l Cat.A/j. High performance two-component paint (BA)
Flash point	None
Solvent for cleaning tools	Water
Storage	12 months, store in a dry place at a temperature between 10 °C and 35°C

APPLICATION DATA AND TIMING	
Mixture ratio	by weight: A=100, B=28 by volume: A=100, B=45
Induction time	15 min
Pot-life (50% R.H.)	at 15°C 130 min at 25°C 105 min at 30°C > 80 min
Dry to the touch (50% R.H.)	

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APPLICATION DATA AND TIMING

	at 15°C 18-22 hours at 25°C 4-6 hours at 30°C 2.5-3.5 hours
Coverage (50% R.H.)	at 25°C 14 to 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. < 70% (*)
Surface temperature	Between +10°C and +30°C
Coating maintenance	For cleaning operations use neutral detergents

TECHNICAL PERFORMANCE DATA

Appearance	Lightly peeled surface
Gloss (60°)	60-65 (*)
Abrasion resistance UNI 8298-9	55 mg (TABER Mola CS-17-1000 rpm - 1000 g weight)
Rfire action (UNI EN 13501-1:2007)	B _{fl} - s1
Slipperiness (D.M.236/89)	$\mu > 0.40$ (with 3% FINE GLASS SPHERES)
Chemical resistance	Contact Sivit Technical Service for detailed information
CE marking (reg. n. 305/2011)	Complies with EN 1504-2. Coating (C) Principle (PR)
Pull Off Adhesion (EN 1542)	2,3 MPa
Abrasion resistance standard EN 5470-1	58 mg
Impact resistance (EN 6272-1)	9,8 N•m (Class 1)
Water permeability (EN 1062-2)	$w < 0,002 \text{ kg}/(\text{h}^{0,5} \text{ m}^2)$
	(*) The degree of brilliance of the applied PAVIWATER product is influenced by several factors: material temperature, ambient humidity, application temperature and porosity of the substrate.

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