

VERNILUX AC

TWO-COMPONENT EPOXY COATING FOR DUST
AND OIL PROTECTION OF CONCRETE AND RESIN
FLOORING



DESCRIPTION

VERNILUX AC is a two-component water-based epoxy resin product developed to coat industrial floors and create a protective film with a satin finish and low yellowing.

FIELDS OF USE

It can be used on concrete floors and mineral substrates, making the floor water-repellent, dust-proof and oil-resistant. can be applied to any substrate provided it is sufficiently solid and stable, such as concrete, plaster, brick and wood.

VERNILUX AC is particularly suitable for floors with the following intended uses:

- Food industry;
- Pharmaceutical industry;
- Mechanical workshops;
- Garages;
- Light logistics;
- For creating marking strips on concrete floors.

PACKAGING

Comp. A = 12 kg plastic buckets

Comp. B = 3 kg plastic buckets

CONSUMPTION

120-150 g/m² per coat, depending on the characteristics of the substrate.

MIXING RATIO

Comp. A : Comp. B = 10:2,5

FEATURES AND BENEFITS

The good flexibility of the hardened product provides floors with good resistance to stress caused by vehicle traffic and excellent impact resistance.

The coating is also waterproof, resistant to various aggressive chemicals and vapour permeable.

CERTIFICATIONS

VERNILUX AC meets the requirements of standard UNI EN 1504-2: concrete surface protection systems (DoP no. 414).

ISO 9001 certified quality management system (Certificate No. IT.17.0227.01.QMS).

APSE S.r.l is an active member of CONPAVIPER.



SUBSTRATE PREPARATION

The surfaces to be treated must be suitable for withstanding the expected loads. Remove any release agents, loose parts, cement laitance, traces of oil and grease, release agents, paints, etc. Before applying VERNILUX AC, it is always necessary to sand thoroughly. Remove the dust produced with industrial vacuum cleaners to ensure adhesion to the substrate. Any unevenness must be levelled out beforehand.

PRODUCT PREPARATION

VERNILUX AC is a two-component epoxy finish consisting of two pre-dosed, ready-to-use components. Mix the two liquid components separately. Then pour component B (small tin) into the container of component A. Mix the two components thoroughly with a drill fitted with a low-speed mixer for a few minutes until you obtain an emulsion with a uniform colour and no streaks. Then slowly add, while continuing to stir, any water required in the appropriate proportion for the intended application (first coat 10%, following coats without dilution), and mix for a few minutes until a homogeneous mixture is obtained again.

Anti-slip finish

If you wish to give the finish anti-slip properties, it is necessary to add, while continuing to mix, special micrometric fillers that are extremely resistant to wear, in a proportion of 5-10% by weight, keeping the product stirred for a few minutes; in this case, it is advisable to keep the product mixed to prevent the aggregate from settling.

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METHOD OF APPLICATION

Apply the product using a short or medium -hair roller or spray, evenly and in a uniform thickness over the entire surface to be treated, in at least two coats.

Apply the product at temperatures between +8°C and +35°C.

CURING

In case of cold substrates (8-10°C), the surface must be heated and kept warm for at least the next 24 hours. In closed environments, it may be necessary to use hot, dry air to facilitate hardening. Protect the film from water for the first 15-20 hours. Refer to the table below for drying times (at 20°C) and curing times.

Workability time (Pot-life)	1-2 hours
Dust dry	3 hours
Setting time	8-9 hours
Walkability	24 hours
Full curing	7-10 days
Full curing (at +10°C)	15-20 days

WARNINGS

Do not use if the container is damaged.

Do not apply VERNILUX AC to dusty or crumbly surfaces.

Do not apply VERNILUX AC to surfaces contaminated with oil, grease or dirt in general.

Do not dilute VERNILUX AC with solvents.

Prolonged exposure to UV rays may cause slight yellowing in the case of light-coloured coatings

CLEANING OF TOOLS

Tools used for preparing and applying VERNILUX AC can be cleaned immediately with water, even after prolonged periods of inactivity.

HEALTH AND SAFETY WARNINGS

For information on safety regulations, hazard statements and cautionary advice, rely on the latest MSDS by making a request to:

ufficiotecnico@apsebg.it

STORAGE

Shelf life of 12 months when stored in original packaging in a dry, moisture-free place.

Store at temperatures between +5°C and +35°C.

It is frost sensitive.

DISPOSAL

Dispose of contents and/or container in accordance with local regulations.



PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS (at +20°C)

FEATURE	STANDARD	RESULT	
		COMPONENT A	COMPONENT B
Appearance	-	Liquid	Thick liquid
Available colors	-	On request	Transparent
Specific gravity	EN ISO 2811-1	1,9 g/cm ³	1,33 g/cm ³
Viscosity	EN 8490	600 cps	5.000 cps

PRODUCT PERFORMANCE ACCORDING TO EN 1504-2

FEATURE	STANDARD	RESULT
Taber abrasion resistance (CS 10 wheel, 1000 revolutions , 1000g)	EN ISO 5470-1	25 mg
Capillary absorption and water permeability	EN 1062-3	$W < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$
Impact resistance	EN 6272-1	Class III
Adhesive force for direct traction	EN 1542	$\geq 2,0 \text{ N/mm}^2$

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