

VERNILUX POL

TWO-COMPONENT ALIPHATIC POLYURETHANE
COLOURED COATING, NON-YELLOWING WITH
GLOSSY OR SEMI-GLOSSY FINISH



DESCRIPTION

VERNILUX POL is a two-component aliphatic polyurethane coating with low solvent content, high resistance to wear and abrasion, and a matt or glossy finish. It is resistant to water, detergents, oils, fuels and cigarette burns.

FIELDS OF USE

Suitable as a finish for epoxy or polyurethane flooring. Can be used as an anti-dust coating for concrete flooring (without moisture in the subfloor). Ideal for painting flooring in:

- workshops;
- warehouses;
- factories;
- offices;
- laboratories;
- showrooms;
- food processing environments.

PACKAGING

Colored:

Comp. A = 12 kg tins

Comp. B = 3 kg tins

Converter:

Comp. A = 10,2 kg tins

Comp. B = 3 kg tins

Oxides or colour paste = 1.8 kg (to be added to component A)

CONSUMPTION

For both glossy and matt coloured finishes, the approximate consumption is 0.120 - 0.150 kg/m² per coat, depending on the characteristics of the substrate to which it is applied and the application method. Two coats are recommended. Rougher surfaces and lower temperatures increase consumption and lengthen the hardening time of the material.

MIXING RATIO

Comp. A : Comp. B = 12 : 3

FEATURES AND BENEFITS

VERNILUX POL has the following characteristics:

- Excellent abrasion resistance;
- High resistance to the main chemical agents;
- High adhesion, wear resistance and good surface hardness;
- Easy cleaning and maintenance;
- No yellowing;
- Resistance to UV rays;
- Working temperature from -25°C to + 90°C.

CERTIFICATIONS

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 substrates to be coated must be undamaged, dry, free of loose parts, dust, dirt, grease, oil and any other material that could compromise the adhesion of the product to the substrate.

Before carrying out the treatment, it is always necessary to sand the surface thoroughly, followed by vacuuming the dust produced using an industrial vacuum cleaner in order to ensure adhesion to the substrate.

If the surface is damp or there is no vapour barrier, it must be treated with approx. 500-1000 g/m² of UMIFOND 3C (see technical data sheet), then primed with one coat of VERNILUX AC. Then proceed in both cases by applying two coats of VERNILUX POL. Steel surfaces must be pre-treated with sandblasting in accordance with SSPC-SP10 to SA2½ grade. If sandblasting is not feasible, adequate mechanical cleaning must be carried out in accordance with the standards. Then apply APSEPRIMER NS 125 primer (see technical data sheet) and then VERNILUX POL.

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PRODUCT PREPARATION

Two-component product to be mixed at the time of use. Mix the two components separately, then pour the contents of component B into component A and homogenise the mixture with a low-speed electric mixer for a few minutes, until completely homogenised. Only mix quantities that can be used within the maximum working time.

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.

METHOD OF APPLICATION

The mixed product can be applied using a short-haired roller, spray or airless spray (4:1). For best results, apply two coats of the product, crossing the strokes and taking care not to exceed the recommended doses. Apply VERNILUX POL no later than 48 hours after applying epoxy and polyurethane coatings at +20°C. Depending on the type of application, the product can be diluted with the appropriate DILUPOL thinner at a ratio of 3÷5 %.

Apply the product at temperatures between +5°C and +35°C.

CURING

Refer to the table below for drying times (at 20°C) and curing times.

Workability time (Pot-life)	2 hours
Setting time	6-8 hours
Walkability	24 hours
Minimum recoating time	> 72 hours at +10°C > 24 hours at +20°C
Maximum recoating time	< 96 hours at +10°C < 48 hours at +20°C
Ready for contact with aggressive chemicals	5 days

WARNINGS

Do not use if the container is damaged.

CLEANING OF TOOLS

The tools used for mixing and applying the material can be cleaned with DILUPOL thinner for epoxy products. Hardened material on tools and mixers can be removed mechanically.

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 +25°C.

DISPOSAL

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

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PRODUCT TECHNICAL DATA

PHYSICAL CHARACTERISTICS OF THE TWO COMPONENTS (at +20°C)

FEATURE	NORMATIVE	RESULT	
		COMPONENT A	COMPONENT B
Appearance	-	Liquid	Liquid
Available colors	-	RAL colours	Transparent
Specific gravity	EN ISO 2811-1	1,33 g/cm ³	1,10 g/cm ³
Viscosity	EN 8490	300 cps	300 cps

PHYSICAL CHARACTERISTICS OF THE MIXTURE (at +20°C)

FEATURE	NORMATIVE	RESULT
Color	-	Colored
Consistency of the mixture	-	Fluid
Specific gravity	EN ISO 2811-1	1,25±0,05 g/cm ³

PRODUCT PERFORMANCE

FEATURE	NORMATIVE	RESULT
Water vapour permeability	EN ISO 7783-2	Sd > 50m
Capillary absorption and water permeability	EN ISO 1062-3	<0,1 kg/m ² x h ^{0,5}
Resistance to cracking	EN ISO 1062-7	A5 (23°C) > B4.1 (23°C)
Impact resistance	EN ISO 6272-1	IR20
Taber abrasion resistance after 7 days (CS 10 wheel, 1000 revolutions, 1000g)	EN ISO 5470-1	<60 mg
Reaction to fire	EN 13501-1	F _{fl}

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