

# VERNILUX POL TR

TWO-COMPONENT ALIPHATIC POLYURETHANE  
TRANSPARENT COATING, NON-YELLOWING WITH  
GLOSSY, MATT OR SEMI-GLOSS FINISH



## DESCRIPTION

VERNILUX POL TR 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

### Transparent gloss finish (TRL)

Comp. A + B = 3 + 1 kg metal tins  
or

Comp. A + B = 9 + 3 kg metal tins

### Transparent matt (TRO) or semi-gloss finish

Comp. A + B = 4 + 1 kg metal tins  
or

Comp. A + B = 12 + 3 kg metal tins

## CONSUMPTION

For both glossy and matt coloured finishes, the approximate consumption is 0.120 - 0.150 kg/m<sup>2</sup> 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

### Transparent gloss finish

Comp. A : Comp. B = 9 : 3

### Transparent matt or semi-gloss finish

Comp. A : Comp. B = 12 : 3

## FEATURES AND BENEFITS

VERNILUX POL TR has 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/m<sup>2</sup> 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 TR. 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 TR.

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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 TR 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 V
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 e.

## 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](mailto: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	STANDARD	RESULT	
		COMPONENT A	COMPONENT B
Aspetto	-	Liquid	Liquid
Appearance	-	Transparent	Transparent
Available colors	EN ISO 2811-1	1,33 g/cm <sup>3</sup>	1,10 g/cm <sup>3</sup>
Specific gravity	EN 8490	300 cps	300 cps

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

FEATURE	STANDARD	RESULT
Color	-	Transparent
Consistency of the mixture	-	Fluid
Specific gravity	EN ISO 2811-1	1,25±0,05 g/cm <sup>3</sup>

The data given above are information obtained from our best technical knowledge, application, and research experience. However, since we are unable to intervene directly in site conditions and work execution, they represent general indications that do not bind APSE S.r.l. - V&V Group. The information given does not relieve the purchaser of his responsibility to personally test our products as to their suitability with regard to their intended use. The customer is also responsible for verifying that this data sheet is valid for the batch of product of interest to him and is not outdated as superseded by later editions. If in doubt, contact our Technical Department in advance. APSE S.r.l. - V&V Group reserves the right to make technical changes of any kind without prior notice. This revision cancels and supersedes all previous ones, all under the continuous verification of data according to the new current Standards and our ISO 9001 management system. Please be sure to check the most up-to-date version of this Data Sheet on our website: [www.apse.it](http://www.apse.it)

