

# POLYURETHANE WATER TOP-COATINGS

## FINIWATER® OPACO A+B

### matt transparent water-based aliphatic polyurethane top-coating

Water-based two-component polyurethane varnish. Suitable for finishing resinous coatings or concrete floors.

Good mechanical and chemical resistances.

Matt appearance.



### Description

Two-component product based on cross-linked polyurethane dispersion with a hydrophilic aliphatic polyisocyanate. The film obtained after the coalescence and crosslinking phase has the following characteristics:

- high anchoring properties on various supports
- excellent mechanical properties
- good abrasion resistance
- good resistance to solvents
- excellent resistance to atmospheric agents
- good resistance against ethyl alcohol
- matt appearance

### Use

Finishing of resin coatings.

Protective transparent for decorative coatings and paints. Painting of concrete floors.

### Preparation of the support

Surfaces must be cleaned, degreased and free of non cohesive parts

As top-coating resin coatings, it is necessary to check the coating time of the previously applied product.

Sand superficially to promote adhesion.

It is recommended to use clear sand papers with grain 150 or finer. After sanding completely remove dust from the surface.

Chalking substrate or very absorbent should be treated with a coat of PAVIWATER T68 or PAVIWATER TES, both diluted 1:3 with water.

### Application

At the time of application, pour component B to component A, mixing carefully with a mechanical mixer. Apply the mixture by roller with a consumption of 0,100 kg/m<sup>2</sup>. For the application it is recommended to use suitable medium-hair rollers. To obtain a non-slip surface, add 3% by weight of SFERETTE DI VETRO FINI to the mixture (see table). Avoid films that are too thick to allow the correct development mechanical chemical features of the film. If necessary it is possible to dilute the mixture with water up to a maximum of 10%.

**Attention:** by virtue of the drying speed of this type of product, particular attention should be paid to the time of application, in order to avoid imperfections such as rollers, overlaps and gloss differences. In general, proceed to distribute the paint on the support homogeneously in the right quantity; When joining the newly painted area, take care to resume the painting a few centimeters away in order to discharge the excess product and then connect with the previous area by blending and dosing the quantity applied carefully. Do not wait too long for overlaps, always paint "fresh on fresh".

Be careful not to leave unpainted areas, in doubt we recommend the application of two coats of product.

In the realization of large surfaces, the coordinated movement of several applicators is required.

**Note:** if component A needs to be transferred from its original packaging, mix carefully in order to homogenize any sedimented matt agents and thus obtain the right gloss value.

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.

## Technical specifications

### PRODUCT DATA

Colour	Transparent
Consumption (roller)	0,100-0,125 kg/m <sup>2</sup>
Specific gravity (at 25 °C)	mixture (A+B): 1,00 +/- 0,05 g/ml
Viscosity (at 25 °C)	mixture (A+B): 320 +/- 30 mPa·s (spindle 2, rpm 50) mixture (A+B) diluted to 10%: 120 +/- 30 mPa·s (spindle 1, rpm 50)
Dry residue (A+B)	40-42% by weight
VOC ready to use (Legislative Decree 161/06)	< 70 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 5 °C and 35 °C; pay particular attention to component B, sensitive to air humidity

### APPLICATION DATA AND TIMING

Mixture ratio	by weight: A=100, B=16
Recommended thinner	Water (only after mixing the 2 components)
Pot-life (50% U.R.)	at 10°C 120-180 min at 25°C 90-120 min at 30°C 60-90 min
Tack-free (50% R.H.)	at 10°C 10-12 hours at 25°C 3-4 hours at 30°C 2-3 hours
Coverage (50% R.H.)	at 25°C 4 to 36 hours
Trafficable (50% R.H.)	at 25°C 3-5 days
Hardening in depth (50% R.H.)	at 25°C 7 days
Environmental conditions of use	Temperatures between +10 °C and +30 °C and R.H. < 70%
Surface temperature	Between +10 °C and +25 °C
Coating maintenance	For cleaning operations wait at least 7 days from the application of the coating and use only neutral detergents

### TECHNICAL PERFORMANCE DATA

Appearance	Smooth and homogeneous
Gloss 60°	10-20 The gloss degree of FINIWATER OPACO is influenced by the following factors: - porosity of the support - mixing mode
Slipperiness (D.M. 236/89)	μ>0,40 (con il 3% di SFERETTE DI VETRO FINI)
CE marking (reg. n. 305/2011)	Conforme a EN 1504-2. Rivestimento (C) Principio (PR).
Pull Off adhesion (EN 1542)	> 1,5 MPa
Abrasion resistance standard EN 5470-1	25 mg (Taber CS-10; 1000 rpm; 1000 gr) 752 mg (Taber H22; 1000 rpm; 1000 gr)
Impact resistance (EN 6272-1)	> 9,8 Nm
Water permeability (EN 1062-2)	w < 0,039 kg/(h <sup>0,5</sup> ·m <sup>2</sup> )

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