

## SurfaPaint™ PU Varnish Matte/Gloss

Two-component transparent Polyurethane protective varnish

### Product Description

New technology, two-component hybrid acrylic transparent varnish of aliphatic polyurethane. Due to its specially designed composition and the UV filters, the applied surfaces are protected from long-term exposure to sunlight, yellowing, adverse weather conditions, but also from chemicals. The application of SurfaPaint™ PU Varnish creates a hard but elastic membrane, increasing the mechanical properties of the surface. It has high abrasion resistance and it is offered in two finishes (matte and gloss) to suit any design option.

### Recommended Use

SurfaPaint™ PU Varnish Matte/Gloss is ideal for the protection of interior and exterior, vertical or horizontal, absorbent or non-absorbent surfaces which are made of natural or artificial building materials such as decorative plaster, concrete, stone, marble, bricks, tiles etc and even wooden or metal surfaces.

### Key Benefits

- ☆ It does not turn yellow
- ☆ Long-term lightfastness
- ☆ Enhances the mechanical strength of the surface
- ☆ Matte/ Gloss finish
- ☆ Waterproofs and resists to alkalis, cleaners, oils, sea water

### Technical Specifications

Type ▶	Hybrid, acrylic-polyurethane, two components (Part A - Part B)
Appearance ▶	Matte or Gloss
Colour ▶	Transparent
Density (EN ISO 2811-1) ▶	0.97 ± 0.05 g / cm <sup>3</sup>
Cleaning solvent ▶	NanoPhos Thinner A
VOC (Volatile Organic Compounds) ▶	<499 g / L
Mixing ratio by weight ▶	5.25 Part A - 1.0 Part B
Solids (% by volume) ▶	38 ± 3% by volume
Substrate temperature ▶	From +5 °C to +35 °C
Application temperature ▶	From +5 °C to +35 °C
Min. Recoat Interval ▶	12h @ 25°C
Foot traffic ▶	24h @ 25°C
Full curing ▶	5d @ 25°C

(\*) Dry-to-recoat time is prolonged under conditions of low temperatures and high humidity.

#### NanoPhos S.A.

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#### Surface Preparation

All surfaces must be clean, dry, free of dust, oils, grease, rust and loose residue. New cement substrates or new masonry should have matured for more than 4 weeks before application. Substrates with damage, cracks and holes should be repaired with appropriate repairing material.

#### Application Instructions

##### Mixing:

Empty the entire content of container B into container A and mix well for 3 minutes with a low speed drill. Stirring should be done on both the walls and the bottom for proper homogenization. Then let the mixture for five minutes to sit.

##### Application:

It is recommended to apply with a brush, roller or airless brush, in at least 2 coats. The next coat should be applied 12 hours after the first. Any excess material should be removed from the surface. All tools and equipment should be cleaned immediately after use with NanoPhos Thinner A solvent.

#### Spreading Rate

8-10 m<sup>2</sup>/L, depending on the absorbance of surface application.

#### Application Tips

Before applying **SurfaPaint™** PU Varnish Matte/Gloss on stamped or micro-cement mortar, the surface should be primed with NanoPhos SurfaMix™ P or SurfaMix™ Epoxy Primer WB primer.

The varnish is transparent with a matte or gloss finish but after its application the original color of the surface may be emphasized. On surfaces where waterproofing products have been applied, or on already modified surfaces, small area should be primarily tested, before full application, for avoiding any adhesion failure. The humidity at the application surface should not exceed 4% and the relative humidity of the environment 65%. The high humidity of the environment and the inclement weather conditions during application, until the varnish dries, may affect its glossiness and curing. In case of rain or high humidity within 48 hours, the application of the varnish should be postponed.

It is recommended to test the material within the working time of the mixture (approximately 2h depending on the environmental conditions), as its curing process inside the mixing container is not visible. At low temperatures and / or high humidity the drying times are extended.

#### Storage

Component A: Storage in the original closed package, in a well-ventilated area, without humidity, at a temperature of 5°C to 35°C, away from sunlight and frost.

Component B: Storage in the original closed package, in a well-ventilated area, without humidity, at a temperature of 5°C to 35°C, away from sunlight and frost, for a period of at least 12 months from the date of production. There is a possibility of polymerization of component B in its container if it meets atmospheric moisture.

Inclement storage conditions may affect product quality.

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### Health and Safety

Read the product label before use. The Safety Data Sheet is available on [www.NanoPhos.com](http://www.NanoPhos.com) or on request by contacting NanoPhos by email: [info@NanoPhos.com](mailto:info@NanoPhos.com) or by phone: 2292069312.

### Available Packages

1kg Metal containers

- Base - Part A
- Hardener - Part B

5kg Metal containers

- Base - Part A
- Hardener - Part B

20kg Metal containers

- Base - Part A
- Hardener - Part B

In a ratio of 5.25: 1, A: B by weight

*Disclaimer: The Technical Data Sheet recommendations for the use of NanoPhos' products are based on our scientific knowledge, laboratory studies and long-term experience. The information provided must be considered indicative and subject to constant review based on specific conditions and each practical application. The suitability of the product should be examined in each case for specific use and the end user bears full & exclusive responsibility for any side effects that may arise from the incorrect use of the product. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. For more information please contact NanoPhos: [info@NanoPhos.com](mailto:info@NanoPhos.com)*

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