

## Project:

Premium quality stone & concrete varnish for stain protection

## Product:

SurfaPaint Stone Varnish WB

## Key Benefits:

- Protects/Enhances appearance
- Protects from water or oil stains and reduces dirt pick up
- Excellent weathering resistance
- Does not yellow
- Excellent penetration ability
- Excellent substrate adhesion
- Multiple coatings provide a satin or glossy appearance
- Can be applied wet-on-wet
- Excellent blush / early water / block resistance
- Easy application
- Short drying time
- Water based & odourless

## Applications:

Natural or artificial, horizontal or vertical, interior or exterior, porous surfaces, such as:

- Flamed or Rough Marble and Stones
- Cotto surfaces
- Cement tiles
- Stamped concrete

## Packaging:

1L, 3L, 10L and 18L plastic pails

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## SurfaPaint Stone Varnish WB

### Stone & concrete clear varnish for protection and appearance enhancement

SurfaPaint Stone Varnish WB is a high quality nano-polymer, filming varnish for the decoration and protection of stone, concrete, brick or other porous substrates. It is based on a nano-acrylic resin which provides premium adhesion, penetration, hardness and resistance to abrasion and scratches. SurfaPaint Stone Varnish WB creates a satin or even glossy (after 3 coats) appearance and does not flake or turn yellow. Its application creates a durable clear protective coating with a high resistance to water or oil-based stains and microorganism growth. The application procedure is simple, as it exhibits early water resistance and fast drying time.



*SurfaPaint Stone Varnish WB treated stone*

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**NanoPhos**  
Pioneering  
Nanotechnology 

## Description of SurfaPaint Stone Varnish WB

SurfaPaint Stone Varnish WB is a clear acrylic water-based varnish ideal for natural and artificial porous surfaces, such as marbles, stones, ceramic tiles and concrete stamped tiles. It creates a sealing film that protects against water based or oily stains. It is a versatile material, as its shininess is developed gradually, from satin to glossy, depending on the number of applied coats. Additionally, it protects surfaces from wear due to weather conditions, without peeling. Its application is ideal on horizontal or vertical, interior or exterior surfaces.

The SurfaPaint Stone Varnish WB is based on nano-acrylic resin. The nanostructured polymer has the ability to penetrate much deeper compared to conventional polymers and attach chemically on the applied surface. Therefore, it provides very good adhesion of the varnish in combination with pore sealing. The resulting film provides excellent resistance to abrasion and scratches, making it applicable on horizontal surfaces. Moreover, the polymer structure remains unaffected from surrounding UV light, providing a weathering resistant solution. Polymer penetration and structure are also responsible for the exceptional chemical resistance and low dirt pick up.

### International Standards Testing

**Density (EN ISO 2811.01-02, 20°C) :**  $1.01 \pm 0.05 \text{ g}\cdot\text{cm}^{-3}$

**Viscosity (DIN 53211-70/4mm, 20°C) :** 30 sec

**Gloss 20° (EN ISO 2813-99) :** 80

**Scratch test (EN ISO 1518-00) :** Dry film 45  $\mu\text{m}$ : 5 $\pm$ 2 Nt, 24 h

For dry film 95  $\mu\text{m}$ : 8 Nt, 7 days

**Water & Alkali resistance (ASTM D 1647-96) :** No visible defaults for over 24 hours

**Ageing test UV (ASTM C 1519-02) :** 1000h



Coffee

Tea

Wine

Oil

Water



**Food stains on stone surface with SurfaPaint Stone Varnish WB.  
24 hours after, the stains were removed with water and paper**

### Application Note

**Application:** The application surface should be dry and clean. Remove flaking and loose material from the application surface. Any oily residues must be removed from the application surface. Many failures attributed to poor surface preparation. Apply 1-2 coats for a satin finish or 3 coats for gloss finish. **Application method:** Brush, spray or roller. Recoating time: 2 hours. Touchdry time: 60min. Application temperature: 5-35°C. It is recommended the modified surface not to be exposed to extreme weather conditions for 4-5 days after application. **Coverage:** Estimated consumption rate 8-10 m<sup>2</sup>/L, depending on the porosity of the substrate.

### Properties

Milky White, Water Emulsion with pH 8.0 $\pm$ 0.5. SurfaPaint Stone Varnish WB is not considered an oxidant. **VOC (Volatile Organic Compounds):** Maximum EU VOC content limit value (Directive 2004/42/CE) of the product (category A/i "One pack performance coatings", Type WB): 140 g/L (2010). Maximum VOC content of this product is 38g/L.

### Safety & Storage

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). Avoid breathing dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Avoid from freezing. Expiration Date: 18 months after the production date.



## What is Nanotechnology?

Nanotechnology refers to the scientific field, which deals with the research and creation of small matter particles, usually sized below 100 nm. One nanometer (nm) is one billionth of a meter (10<sup>-9</sup> m) - it is so small that if earth were one meter in diameter, then one nanometer would have been the size of an apple! Nanosized materials reveal unique properties when compared to ordinary, bulk materials or even molecules.

## NanoPhos at a Glance...

At NanoPhos, we take advantage of the unique properties of nanotechnology and invent clever materials that solve every day problems. By harnessing nanotechnology, we seek to create a more comfortable, safe and trouble-free living environment. We transfer innovations out of our lab and into the hands of consumers. Our vision is clear: "Tune the nanoworld to serve the macroworld" - in simple terms we make nanoparticles solve common problems. NanoPhos was recognized in January 2008 by Bill Gates as one of the most innovative companies and also received the 1<sup>st</sup> prize for innovation at the prestigious 100% Detail Show in London. NanoPhos is a rapidly growing company that is actively expanding its distribution network. Currently, the company is present in the UK, Norway, Sweden, Denmark, Portugal, Spain, France, Italy, Greece, Cyprus, Egypt, Sudan, Saudi Arabia, Bahrain, UAE, Qatar, Oman, Iran, India, New Zealand, China, Japan, Mexico, Guatemala, Thailand, Malaysia and Singapore.

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NanoPhos SA has been approved by Lloyd's Register Quality Assurance to follow the EN ISO 9001:2000 Quality Management System and the environmental management system EN ISO 14001:2004 for the development, production and sales of chemical products for cleaning and protection of surfaces and nanotechnology products. Furthermore, it is certified for occupational health and safety management systems with OHSAS 18001:2007.

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