

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
- Hot tire pick up resistance
- Easy application
- Short drying time
- Water based & odorless

Applications:

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

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

Packaging:

3L, 10L and 18L plastic pails

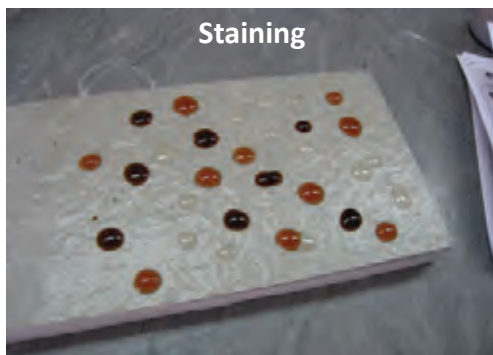
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SurfaPaint Stone Varnish WB

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 designed 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 microorganisms growth. The application procedure is simple, as it exhibits early water resistance and fast drying time.



SurfaPaint Stone Varnish WB treated stone was stained with red wine, olive oil and coffee. 24 hours after the application, the stains disappeared just by using with tap water and kitchen paper.

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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 is creating a sealing film that protects against water based or oily stains. It is a versatile material, as it develops shiness gradually, from satin to glossy, depending on the number of 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.

How does SurfaPaint Stone Varnish WB work?

The SurfaPaint Stone Varnish WB is based on nano-acrylic resin. The nanostructured polymer has the ability to penetrate much deeper comparing to conventional polymers and attach chemically on the surface applied. 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, providing a weathering resistant solution. Polymer penetration and structure are also responsible for the exceptional chemical resistance and low dirt pick up.

How is SurfaPaint Stone Varnish WB applied on surfaces?

Before applying SurfaPaint Stone Varnish WB the application surface has to be clean and dry. Any oily residues must be removed from the application surface. Many failures attributed to poor surface preparation. The varnish is applied by brush, roller or airless spray gun. Apply 1-2 coats for satin finish and 3 coats for glossy finish. Touch-dry time is 60min. Drying time is 2-3h (25°C - 50%RH). In order to apply a subsequent coat, let the previous coat to cure for 2 hours. The modified surface recommended to not be exposed to extreme weather conditions for 4-5 days after application.

What are the pricipale benefits of treated porous surfaces?

The SurfaPaint Stone Varnish WB protects the surface from water-based and oil-based stains. The appearance of the application surface is enhanced and maintained over time. In addition, the surface is protected from the weather and abrasion.

Technical characteristics:

Specific gravity: 1.01±0.02 gr/ml (EN ISO 2811.01-02, 20°C)

Viscosity: 30±2 sec (DIN 53211-70/4mm, 20°C)

Properties:

Gloss 20°: 80±2 (EN ISO 2813-99) after 3 coats.

Scratch test: 45±5µm: 5±2 Nt, after 24 hours

95±5 µm: 8±2 Nt, after 7 days (EN ISO 1518- 00)

Adhesion (Pull off): 2.5±0.5 N/mm² [stone]

3.5±0.5 N/mm² [marble] (EN ISO 4624-03)

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

Elasticity (Cold check): > 25 cycles (ASTM D 1211-87)

Exposure to fluorescent UV and water: 1000h (ASTM C 1519-02)

Drying time: 2-3 hours, 25°C - 50%RH

VOC (Volitile Organic Compounds): Maximum EU VOC content limit value (Directive 2004/42/CE) of the product in a ready to use condition (category A/h "Binding Primer", Type WB): 30 g/L (2010). Maximum VOC content of this product is 25g/L.

Application: The application surface should be dry and clean. Remove flaking and loose material from the application surface. 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.

Coverage: Estimated consumption rate 8-10 m²/L, depending on the porosity of the substrate.

Safety: Not hazardous according to Directive 67/548/EEC and 1999/45/EC and its subsequent amendments. Do not breathe spray. Do not empty into drains.

Expiration date: 18 months from production date.



What is Nanotechnology?

Nanotechnology refers to the scientific field, which deals with very small structures, usually sized below 100 nm. One nanometer (nm) is one billionth of a meter (10⁻⁹ 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 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 of 2008 by Bill Gates as one of the most innovative companies and also received the 1st prize for innovation at the prestigious 100% Detail Show in London. SurfaShield technology, received the prestigious GAIA award at the 2010 International Building and Construction Show BIG5 in Dubai for its environmentally friendly and innovative profile. NanoPhos is a rapidly growing company that is actively expanding its distribution network. Currently, the company is present in the UK, Norway, Sweden, Portugal, France, Italy, Romania, Greece, Cyprus, Turkey, Egypt, Saudi Arabia, Bahrain, UAE, Iran, India, China, New Zealand, Japan, Guatemala and Mexico.

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NanoPhos SA has been approved by Lloyd's Register Quality Assurance to follow the EN ISO 9001:2008 Quality Management System and EN ISO 14001:2004 Environmental Management System for the production and sales of chemical products for cleaning and protection of surfaces and nanotechnology products.

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