SurfaPore M

Protects porous surfaces, marbles and granites from oil, water and stains

Product Description

SurfaPore M is a water-based formulation, specifically designed to harness the power of nanotechnology, in order to achieve both oil and water repellency on the surfaces applied. Its action mechanism is simple in concept but effective in practice: *The core nano-sized particles, suitably engineered to fit the pores of the surface applied, penetrate and "flood" pores that can accumulate water, oil or dirt.* **SurfaPore M** anchors on to the surface applied, resulting in the coating being permanent and effective. After coating, water, oil or dirt fails to penetrate into the porosity of the substrate. Therefore, an important, value-adding objective has been achieved: *Permanent pore protection provides stain proofing and easy cleaning properties.* The application of **SurfaPore M** does not induce any visual change on the surface applied and does not block its breathability. Also, it blocks the absorbance of UV radiation without affecting the surface. Therefore, superior protection of the substrate is achieved without discolorations (yellowish essence) or loss of effectiveness.

Recommended Use

Ideal for oil and water protection of porous surfaces such as marbles and granites. It also prevents staining.

Key Benefits

- Very effective & Nano-based
- High breathability
- Non-film forming - Invisible
- Long-lasting & UV-resistant
- Easy to apply
- Water-based
- Environmentally friendly
- Cost-effective

Technical Specifications

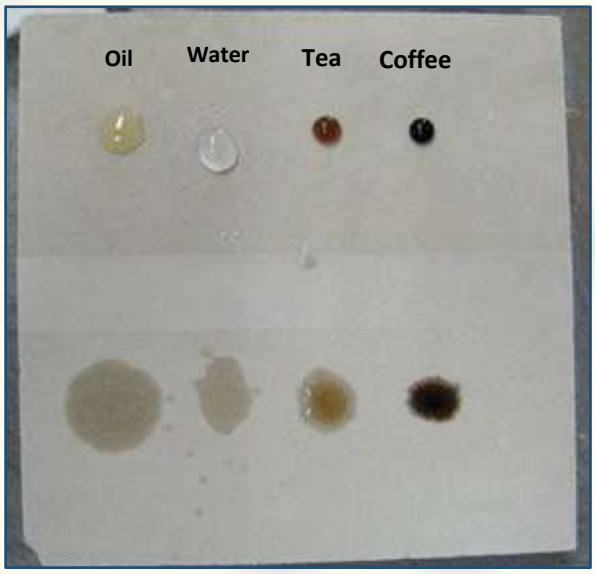
Form/Type ▶	Water suspension
Colour ▶	Yellowish
Density ▶	1.00 ± 0.05 g/cm^3
Application temperature ▶	From +5°C to +35°C
pH ▶	4.5 ± 0.5
VOC (Volatile Organic Compounds) ▶	Maximum 1 g/L
Viscosity ▶	2mPa·s

Odourless

SurfaPore M is not considered an oxidant

International Standards Testing

Water absorption under low pressure (RILEM Test Method 11.4):	The test procedure determines the water absorption rate of a concrete surface. Loss of water is inversely proportional of waterproofness. After 24 hours with water contact treated sample exhibited 0.8 cm^3 absorption, while the untreated absorbed 1.2 cm^3.
Water vapor transmission of materials (ASTM E 96):	Water vapor permeability was determined as the rate of water vapors passes through a 1cm thick porous stone sample. Vapor Permeability Loss: 2.12% (surface application).
Contact angle measurement:	Treated marble demonstrates 127° with water droplet.
Food stains resistance:	SurfaPore M porous modified surface is not susceptible to food stains and the results are exhibited in the figure below.



Surface Preparation

All surfaces should be clean, dry and free from dust, oil, grease and other foreign matters or contamination.

Application

Apply **SurfaPore M** by using a brush, roller or spray gun. No dilution is required. For extra protection of very sensitive surfaces reapply, within 3 hours after the first application.

Consumption

Estimated consumption rate 8-10 m^2/L, strongly dependent on the properties of the surface applied.

Health and Safety

Read label before use. Safety Data Sheet are available through NanoPhos' website www.NanoPhos.com or upon request by contacting NanoPhos through email: info@NanoPhos.com or by telephone: (+30) 2292069312.

Available Packaging

- 1L Plastic Container
- 4L Plastic Container
- 30L Plastic Container
- 1000L IBCs

Notes & Precautions: Adverse weather conditions during or after the product application may affect the properties of the coating. Storage of closed containers, in controlled dry and enclosed space, away from sources of ignition and temperatures from 5ºC to 35ºC, for up to 24 months. The Technical Data should be read in conjunction with the Safety Data Sheets. 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**