

Project:

Stain protection and Water-proofing for marble, granite and porcelain tiles

Product:

SurfaPore T

Key Benefits:

- Most Effective & NanoBased
- Long Lasting & UV Resistant
- Does not change natural appearance
- Easily Applicable
- Water based
- Cost Effective

Applications:

- Waterproofing and stain protection for sensitive or polished surfaces
- Seals pores without creating a film
- Seals Porcelain Tiles and other "Non-Absorptive" Surfaces

Packaging:

1L, 4L, 30L Containers, 1000L IBCs

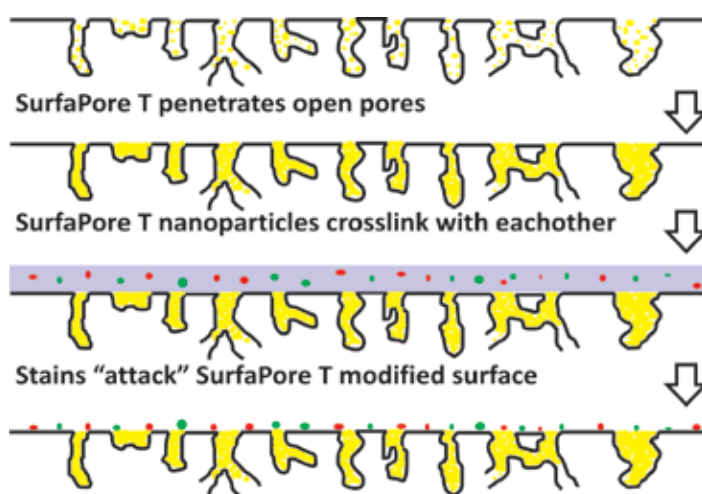
www.NanoPhos.com



SurfaPore® T

Nanotechnology for protecting marble, granite and porcelain surfaces from staining

Staining of porcelain, marble and granite tiles can be disastrous for these valuable surfaces. Microscopic analysis of these surfaces reveals multiple interconnected pores that readily collect stains resulting in loss of shine and natural appearance. Cleaning them requires significant effort and some stains may be impossible to remove. SurfaPore T can be easily applied on your existing or new surfaces to preserve their appearance. It creates an impermeable and invisible shield by blocking even the finest pores of these surfaces.



Stains DO NOT PENETRATE SurfaPore T modified surface and are easily removed



SurfaPore® is a registered trademark of
NanoPhos SA,
PO Box 519,
Science & Technology Park of Lavrio
Lavrio 19500, Greece
T: +302292069312 F: +302292069303
E: info@NanoPhos.com

NanoPhos
Pioneering
Nanotechnology

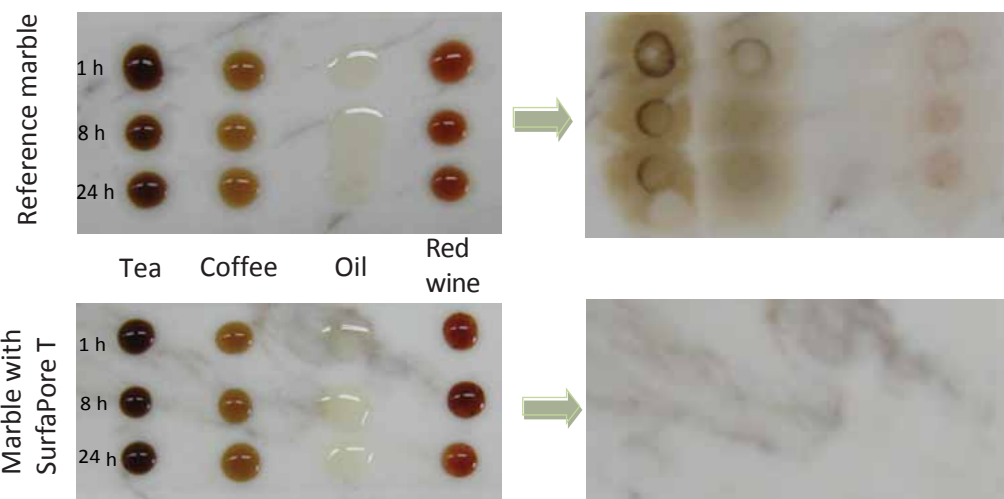
SurfaPore T Description

SurfaPore T is a water based product. The nano-sized particles, that fit the pores of a polished surface, penetrate and “flood” the pores that can accumulate dirt. These nanoparticles have the ability to self polymerize and create an impermeable grid of inert material. After modification, dirt particles fail to penetrate into the microporosity of the surface (marble, granite or polished tile). Therefore, an important, value-adding objective has been achieved: Permanent pore impregnation providing stain proofing and easy cleaning. Apart from stain proofing, the molecular design of SurfaPore T nanoparticles induces an additional useful property: The hydrophobic moiety, attached on top of the core nanosized particles is responsible for the creation of a continuous hydrophobic layer that protects each tile.

International Standards Testing

Stain Resistance (EN 10545-14): The results indicate that SurfaPore T surfaces such as white marble, black granite or unglazed porcelain tiles (gres porcelanato) are not susceptible to staining and exhibit Class 5 Stain Resistance.

Food stain Resistance: In the figures below the result from food staining the polished marble and after wiping off within 1, 8 and 24 hours can be seen. In the SurfaPore T treated tile it is obvious that the surface has not been damaged in comparison to the untreated.



Application Note

The application surface should be dry and clean. Apply SurfaPore T by brush, roller or spraying. No dilution is required. After 15 minutes and before SurfaPore T dries completely, remove any excess and polish, by using a wet cloth and then wipe out with a dry cloth. On sensitive surfaces, reapply within 3 hours. Test results on a small area before full scale application. Maximum effectiveness is achieved 24 hours after application.

Consumption: Estimated consumption rate 14-20 m²/l, strongly dependant on the properties of the surface applied.
Expiration Date: Two years after the production date. VOC Content: 20 g/L.

Physical Properties

Clear yellow, water suspension with slight odour and pH = 11±0.5. Density: 1.05±0.05 g·cm⁻³ Viscosity: 2 cP. SurfaPore T is not considered an oxidant.

Safety & Storage

Causes serious eye irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. May produce an allergic reaction. Avoid release to the environment. Wear protective gloves / protective clothing / eye protection / face protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice / attention. Avoid freezing.



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” – 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. 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, Thailand, Malaysia and Singapore.

www.NanoPhos.com



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.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY. The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that NanoPhos' products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent. NanoPhos specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. NanoPhos disclaims liability for any incidental or consequential damages. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.