

SurfaPore™ R

Water Repellent for clay-based surfaces

Product Description

SurfaPore™ R is a water-based solution with nanoparticles, which waterproofs clay surfaces, protecting them from corrosion and mold growth due to moisture, for a long time. Unlike conventional waterproofing products on the market that create a "plastic" protective film, SurfaPore™ R deeply impregnates the surface of porous clay substrates without forming a film, preventing water penetration while at the same time allowing the breathability on the modified surfaces. Surfaces treated with SurfaPore™ R remain protected against mold 'formation', corrosion and frost cracking without altering their original appearance.

Recommended Use

Ideal for water repellency and moisture protection on all types of porous clay surfaces, such as tiles, pottery and cotton slabs. SurfaPore™ R, also protects materials from frost cracking, preventing mold, moss and lichen growth and prevents scale build-up.

Key Benefits

- ☆ Very effective & Nano-based
- ☆ High breathability
- ☆ Non film forming
- ☆ Long-lasting & UV-resistant
- ☆ Easy application on surface or by dipping
- ☆ Water-based
- ☆ Environmentally friendly
- ☆ Cost-effective

NanoPhos S.A.

PO Box 519, Sci. & Tech. Park of Lavrio, 1st Km. Lavrio - Athens Ave., 19500 Lavrio, Greece
T. (+30) 22920 69312 | F. (+30) 22920 69303 | E. info@nanophos.com | W. www.NanoPhos.com

SurfaPore™ R

Water Repellent for clay-based surfaces

Technical Specifications

Form/Type	▶	Water emulsion
Color	▶	Milky White
Density	▶	0.99 ± 0.05 g/cm ³
Application temperature	▶	From +5°C to +35°C
pH	▶	5,8 ± 0.5
VOC (Volatile Organic Compounds)	▶	<1 g/L
Flowtime (Ford cup N _o 4)	▶	11, 6@20°C
Water absorption:	▶	Ref. sample: C _m =0.33 kg/(m ² ·min ^{1/2}) Modified with SurfaPore R: C _m =0.08 kg/(m ² ·min ^{1/2})
Mass loss after freeze-thaw salt stress (EN13581:2002)	▶	SurfaPore R treated sample does not exhibit mass loss after 20 cycles.
Water absorption coefficient due to capillary action (EN 1015-18:2003)	▶	Ref sample: 13.66% Modified with SurfaPore R: 0.53%
Water Vapor Transmission of materials (ASTME 96)	▶	4.94% (surface application)

Surface Preparation

All surfaces must be clean, dry, free of dust, oils, salts, grease, rust and loose residue.

Application Instructions

SurfaPore™ R can be applied by spray as well as by roller or brush, without dilution. On particularly absorbent surfaces, it is recommended to apply a second coat, within 3 hours of the first application.

Soaking: Soak the ceramic material in SurfaPore™ R for 30 seconds.

A small test before full application on the surface is recommended. Water repellency is fully achieved 24 hours after application.

Additional Information

More information about the suitability of SurfaPore™ R on different substrates is available at **Marble Atlas** brochure, through NanoPhos' website <https://nanophos.com/category/media/entypa/>.

Spreading Rate

9-11 m²/L, accordingly to the absorbance of surface application.

NanoPhos S.A.

PO Box 519, Sci. & Tech. Park of Lavrio, 1st Km. Lavrio - Athens Ave., 19500 Lavrio, Greece
T. (+30) 22920 69312 | F. (+30) 22920 69303 | E. info@nanophos.com | W. www.NanoPhos.com

SurfaPore™ R

Water Repellent for clay-based surfaces

Storage

Store in well closed package, in a well-ventilated area, strictly at a temperature of 5°C to 35°C, away from sunlight and frost. Inclement storage conditions may affect product quality.

Health & Safety

Read the label of the product before use. Safety Data Sheet is 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 bottle
- 4L Plastic canister
- 30L Plastic canister

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

SurfaPore™ logo is a registered trademark of NanoPhos SA

NanoPhos S.A.

PO Box 519, Sci. & Tech. Park of Lavrio, 1st Km. Lavrio - Athens Ave., 19500 Lavrio, Greece
T. (+30) 22920 69312 | F. (+30) 22920 69303 | E. info@nanophos.com | W. www.NanoPhos.com