

SurfaPore™ R

Waterproofing for clay-based surfaces.

Product Description

SurfaPore™ R is a water-based, nanoparticle solution that waterproofs clay surfaces, providing long-term protection against corrosion and mold growth caused by moisture. Unlike conventional waterproofing products on the market, which create a "plastic" protective layer, SurfaPore™ R deeply impregnates the surface of porous clay substrates without forming a film, preventing water penetration while allowing the treated surfaces to breathe.

Surfaces treated with SurfaPore™ R remain protected against mold formation, corrosion and cracks caused by their original condition.
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Recommended use

Ideal for waterproofing and moisture protection on all types of porous clay surfaces such as ceramic tiles, stoneware and cotton tiles. SurfaPore™ R also protects materials against frost cracks, prevents the growth of mould, moss and lichen and prevents the formation of limescale deposits.

BENEFITS

- ★ Highly effective & based on nanotechnology
- ★ High air permeability
- ★ Does not form a film
- ★ Durable & UV resistant
- ★ Easy application on the surface or by immersion
- ★ Water-based
- ★ Environmentally friendly
- ★ Rent

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Technical specifications

Form/ Type: Water-based emulsion

Color: Milky White

Density: $0.99 \pm 0.05 \text{ g/cm}^3$

Application temperature: From $+5^\circ\text{C}$ to $+35^\circ\text{C}$ pH: 5.8 ± 0.5 VOC

(Volatile Organic Compounds)

Flowtime (Ford cup N04): 11.6 s at 20°C

Water absorption: 0.33 kg/m^2 (20 min)

Modified with SurfaPore R: 0.08 kg/m^2 (20 min)

Mass loss after freezing - thawing test (EN13581:2002): SurfaPore R treatment does not exhibit mass loss after 20 cycles.

Water absorption coefficient due to capillary action (EN 1015-18:2003):

Reference sample: 13.66% Modified with SurfaPore R: 0.53%

Water Transfer of materials (ASTM E 96): 4.94% (surface application)

Surface preparation

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

Application instructions

SurfaPore™ R can be applied by spray, roller or brush, without dilution. On particularly absorbent surfaces, it is recommended to apply a second coat within 3 hours of the first application. Immersion: Immerse the ceramic material in SurfaPore™ R for 30 seconds. It is recommended to carry out a test on a small area before full application. Full waterproofing is achieved 24 hours after application.

Additional information

More information on the compatibility of SurfaPore™ R with different substrates is available in the Marble Atlas brochure, accessible on the NanoPhos website at: <https://nanophos.com/category/media/entypa/>.

Coverage rate

9-11 m²/L, depending on the absorption of the surface to be applied.

NanoPhos SA

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

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Storage

Store in tightly closed packaging, in a well-ventilated area, strictly at a temperature between 5°C and 35°C, away from direct sunlight and frost. Unfavorable storage conditions may affect the quality of the product.

Security and health

Read the product label before use. The Safety Data Sheet is available on the NanoPhos website: www.NanoPhos.com or upon request by contacting NanoPhos by email: info@NanoPhos.com or phone: (+30) 2292069312.

Available packaging

- ÿ 1L Plastic bottle
- ÿ 4L Plastic canister
- ÿ 30L Plastic canister

Disclaimer: The recommendations in the Product Data Sheet for the use of NanoPhos products are based on our scientific knowledge, laboratory studies and long-term experience. The information provided should be considered indicative and subject to constant review, depending on the specific conditions and each practical application. The suitability of the product must be verified in each case for the specific use and the end user bears full and exclusive responsibility for any side effects that may arise from incorrect use of the product. This edition of this data sheet automatically cancels any previous edition relating to the same product. For more information, please contact NanoPhos: info@NanoPhos.com.

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