

SurfaPore™ W

Water- and Oil repellent for porous and absorptive wooden surfaces.

Product Description

SurfaPore™ W is a water-based formulation, specifically designed to harness the power of nanotechnology in order to preserve absorptive wooden surfaces. By making wood water/oil resistant, it assures dimensional stability and protection against warping and decay. Unlike traditional varnishes, SurfaPore™ W does not alter the original appearance of the surface and doesn't seal the pores, since it does not create a film. SurfaPore™ W contains no active ingredients against wood-boring insects or biocides.

Recommended Use

Ideal for protecting absorbent timber. SurfaPore™ W can provide complete protection for decking, fences/posts, facade and roof shingles, garden furniture and sheds, docks or any absorptive wood that needs combined protection and natural appearance. It can also be used for any unpainted wood at risk from moisture. SurfaPore™ W has been successfully used as an additive (10% dilution ratio) in pressure-treatment solutions to protect wood.

Key Benefits

- ☆ Water & oil protection
- ☆ Environmentally friendly, water-based, odorless and without biocides
- ☆ Non film forming, does not alter the appearance of the wood surface
- ☆ Particularly active composition based on nanotechnology
- ☆ Water vapor permeability of the surface after application
- ☆ Ease-to-apply

Technical Specifications

Type ▶	Aqueous suspension
Appearance ▶	Transparent
Density ▶	1.02 ± 0.05 g/cm ³
Application temperature ▶	From +10°C to +35°C
pH ▶	4.3 ± 0.5
Flowtime (Ford cup No4) ▶	11,8 sec@20°C
VOC (Volatile Organic Compounds) ▶	<1 g/L
Determination of swelling in thickness after immersion in water (EN 317:1993) ▶	SurfaPore™ W treated wood exhibited 27% reduction in swelling and 52% reduction in water mass absorption
Determination of surface absorption of water ▶	88% reduction for the treated wood sample compared to the untreated
Ageing test (ISO EN 11507 Method A, QUV-B) ▶	800h SurfaPore™ W retains its functionality at 60%.

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Surface Preparation

All surfaces must be clean, dry, free of dust, oils, salts, grease, rust and loose residue. Remove any varnish or wood stain residues before applying SurfaPore™ W.

Application Instructions

Shake well before use. SurfaPore™ W can be applied by spray, roller or brush. SurfaPore™ W is ready to use, no dilution required. Full waterproofing is achieved 24 hours after application. On highly absorbent wooden surfaces, reapply within 2 hours. Do not apply the product in case of impending rain.

Subsequent coating: The use of wood paints or varnishes after the application of SurfaPore™ W may affect their shade or adhesion. Test it on a trial surface, 72 hours after applying SurfaPore™ W.

Spreading Rate

8-15 m²/L, accordingly to the absorbance of surface application.

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
- 10L 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

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