SurfaPore W

Water and oil repellent for porous and absorptive wooden surfaces – Wood preservative

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 wooding water resistant, it assures dimensional stability and protection against warping and decay. Additionally, it provides oil repellency in order to prevent oily stains from penetrating wood surfaces. The application of **SurfaPore W** does not induce any visible change on the surface applied and does not block the pores (no pore sealing like traditional varnishes or wood stains). Thus, the breathing ability of the natural wood surface is preserved. **SurfaPore W** contains active ingredients against wood-boring insects. The fact that the active ingredients are encapsulated among water repelling nanoparticles assures minimal leaching. Thus, insect protection lasts longer, as it is not washed away of the wood mass.

Recommended Use

Ideal for absorptive wooden surfaces. **SurfaPore W** can provide complete protection for decking, fences/posts, façade and roof shingles, garden furniture and sheds, docks or any absorptive wood that needs combined protection and natural appearance. It can be successfully used as an additive (10% dilution ratio) in pressure-treatment solutions to protect wood.

Key Benefits

- Simultaneously protects against oil and water absorption
- Effective against wood-boring insects
- Prevents warping
- Preserves natural wood appearance
- Retains natural breathability
- Non-film forming - Invisible
- Very effective nano-based formula
- Long-lasting
- Easy to apply
- Water-based
- Cost-effective

Technical Specifications

Form/Type ▶	Water suspension
Colour ▶	Yellowish
Density ▶	1.00 ± 0.05 g/cm^3
Application temperature ▶	From +10°C to +35°C
pH ▶	4.5 ± 0.5
Viscosity ▶	2mPa·s@20°C
VOC (Volatile Organic Compounds) ▶	Maximum 1 g/L

International Standards Testing

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 605.

Surface Preparation

All surfaces should be clean, dry and free from dust, oil, grease and other foreign matters or contamination. Remove any varnish or wood stain residues before applying **SurfaPore W**.

Application

Apply **SurfaPore W** by using a brush, roller or spray gun. Maximum performance is reached 24h after application. In case of very absorptive surfaces, re-apply within 2 hours.

Wood stain or varnish application: Let **SurfaPore W** cure for at least 72h before application. Applying wood varnish or stain on a **SurfaPore W** treated surface might affect their colour or adherence. Test results on a small area before full scale application.

Consumption

Estimated consumption rate 8-15 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 5°C to 35°C, 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**