

SurfaPore F

Water repellency of fibrous materials plaster and wood – Primer for plasterboard and drywall before painting

Product Description

SurfaPore F is a water based, liquid formulation, developed and produced to create a thin layer on the modified surfaces, preventing water from penetrating. Because of its flexibility, it reduces the swelling and cracking effect. It also reduces water absorption of substrates by up to 90%. **SurfaPore F** has a prolonged lifetime and great resistance to UV radiation and weathering, while at the same time it is really cost effective. Modified surfaces underlie minimal change to the original natural appearance. Whilst **SurfaPore F** contains a moderate tough and flexible resin, the application and the adhesion of the solution on surfaces are favoured. Due to its composition, **SurfaPore F** can be used as a primer before painting, in surfaces such as plasterboards. In this way, the adhesion of paint on substrates is enforced. All in all, the modified surfaces remain dry and unchanged in both appearance and mechanical properties.

Recommended Use

Ideal for water protection of fibrous surfaces such as plaster, plasterboards, drywalls, wood and carton. Prevents mould growth and cracking.

Key Benefits

- ☆ Long-lasting
- ☆ UV & weather resistant
- ☆ Easy surface application
- ☆ Can be used as a primer
- ☆ Excellent washability
- ☆ Water-based
- ☆ Adhesion promoter
- ☆ Environmentally friendly
- ☆ Cost-effective

Technical Specifications

Form/Type	▶ Water emulsion
Colour	▶ Milky white
Density	▶ $1.01 \pm 0.05 \text{ g/cm}^3$
Application temperature	▶ From +5°C to +35°C
pH	▶ 7.0 ± 0.5
VOC (Volatile Organic Compounds)	▶ Maximum 1 g/L ¹
Boiling & flash point	▶ >100°C
Auto ignition point	▶ >100°C
Viscosity	▶ 4mPa·s
	▶ Slight odour
SurfaPore F is not considered an oxidant	

¹ VOC (Volatile Organic Compounds): Maximum EU VOC content limit value (Directive 2004/42/CE) of the product in a ready to use condition (category A/h “Binding Primers”): 30g/L (2010)

International Standards Testing

Water absorption under low pressure (RILEM Test Method 11.4):	The test procedure determines the water absorption rate of horizontal plasterboard surface. Loss of water is inversely proportional to waterproofness. After 24 hours with water contact, the treated sample exhibited 0.6 cm ³ absorption, while the untreated absorbed 5 cm ³ .
Water absorption on kraft paper:	Water mass absorption was reduced 93.25% after 1 hour immersion in a water tank at room temperature.
Contact angle measurement:	Waterproofing can be quantified with contact angle measurement between water and substrate. 120 seconds after depositing water droplet, SurfaPore F treated samples exhibited 135°, while untreated 45°.

Surface Preparation

All surfaces should be clean, dry and free from dust, oil, grease and other foreign matters or contamination.

Application

Apply **SurfaPore F** by using a brush or roller. No dilution is required. On very absorptive surfaces re-apply within 3 hours. Maximum water repellency is achieved 24 hours post application.

Consumption

Estimated consumption rate 8-10 m²/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