Surfa**Pore™ FX WB**

Hybrid nanotechnology liquid for the protection of mineral surfaces

Product Description

Surfa**Pore™ FX WB** is a water-based suspension, which enhances the mechanical strength of construction materials, stabilizes fragile, sensitive surfaces and hydrophobically modifies the surfaces at the same time. After application nanoparticles penetrate the substrate, chemically attach on the application surface and covalently interconnect with each other. Therefore, they form a dense network, enhancing the mechanical properties of the worn or deteriorated surfaces. As the active ingredient is also inorganic, Surfa**Pore™ FX WB** exhibits strong chemical affinity with building materials. The nanoparticles do not seal the pores but support the "walls" or cracks of the worn substrate. Therefore, natural appearance, water vapor permeability and porosity of the treated surfaces remain unaffected. Surfa**Pore™ FX WB** creates a consistent surface with increased durability against acids. Ease of application makes Surfa**Pore™ FX WB** suitable for both protecting and repairing deteriorated surfaces. The complete absence of resins, its inorganic composition in combination with the nano-particle size provide long term protection and weathering resistance.

Recommended Use

Ideal for interior or exterior, "stressed" or crumbling building surfaces such as stucco, renders, plasters & cementitious materials or sand and porous stones, marbles and clay-based tiles.

Key Benefits

- Enhancement of compressive, tensile and flexural strength of building materials
- Stabilizes loose matter
- -Does not affect porosity or water vapor permeability
- It does not change natural appearance
- Inorganic liquid formulation - Non film forming
- Long lasting, weathering and UV resistant
- Acid resistant

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Technical Specifications

Type	Aqueous suspension
Color	Transparent
Odor	Faint
Density	1.10 ± 0.05 g/cm^3
Application temperature	From +5°C to +35°C
pH	12.1 ± 0.5 @25°C
Boiling & Flash Point	>100°C
Flash Point	>100°C
Flowtime (Ford cup N$_0$4)	11.7 sec @25°C
Liquid Water Permeability (kg/ (m^{2}h$^{0.5}$)	W= 0.048 Kg*m^2/h$^{1/2}$

Surfa**Pore™ FX WB** is not considered an oxidant or corrosive agent

Surface Preparation

All surfaces must be clean, dry, free of dust, oils, salts, grease, rust and loose residue. New cement substrates or new masonry should have matured for more than 4 weeks before applying Surfa**Pore™ FX WB**.

Application Instructions

Shake well before use. Surfa**Pore™ FX WB** can be applied with roller, brush or spray without dilution. On highly absorbent surfaces, it is recommended to apply a second coat, 15 minutes after the first application. Any excess must be removed. After drying, a light cleaning of the surface with a dry brush is recommended.

Spreading Rate

6-8 m^2/L, accordingly to the absorbance of surface application.

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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

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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