

SurfaMix P WBQ

Quartz Adhesion Primer for Smooth Non-Absorbent Surfaces

Description

SurfaMix P WBQ is a high-performance, water-based acrylic primer enriched with quartz granules of regulated grain size, specifically engineered to ensure exceptional mechanical keying on smooth or non-absorbent surfaces. Uniquely formulated with **SurfaPore FX WB** nanotechnology, this primer functions as an active consolidant that penetrates and stabilises fragile or crumbling mineral substrates while providing early-stage water repellency. This dual-action approach not only creates a textured, alkali-proof surface for the application of subsequent plasters, renders, and tile adhesives, but also protects the substrate from moisture ingress during the critical initial curing phases. The result is a robust, moisture-resistant bond that ensures long-term structural integrity even on the most challenging architectural surfaces.

Recommended Use

SurfaMix P WBQ is specifically engineered as a high-performance adhesion primer for smooth, non-absorbent, and "slippery" surfaces, including visible concrete, mosaics, old marble layers, and previously painted masonry. On masonry substrates, its unique formulation ensures a superior mechanical key for subsequent applications of plasters and renders. Furthermore, it serves as an exceptional substrate for low-absorbent floor surfaces, facilitating reliable floor filling and secure tile adhesion. By incorporating **SurfaPore FX WB** technology, the primer provides essential substrate stabilisation and early water repellency, making it ideal for protecting and consolidating "stressed" or crumbling mineral surfaces before the application of final coatings.

Key Benefits

- ☆ **Early Water Repellency:** Provides immediate resistance to moisture ingress, protecting the substrate from water damage during the initial curing phases of the system.
- ☆ **Alkali-Proof Barrier:** Delivers a resilient, alkali-resistant coat that prevents the degradation of the bond when used with cementitious renders and plasters.
- ☆ **Ready-to-Use Formulation:** Designed for ease of application with a brush or roller, requiring no complex mixing or dilution for standard use.
- ☆ **Substrate Breathability:** Maintains the natural water vapour permeability of the treated surface, preventing moisture entrapment within the building fabric.
- ☆ **Environmentally Friendly:** Low-VOC, water-based composition that is safe for both interior and exterior applications.

Technical Specifications

Type:	A water-based acrylic styrene copolymer dispersion enriched with quartz granules and SurfaPore FX WB nanotechnology	Components:	Single Component
Colour:	Grey	Thinner/Cleaner:	None Required/ Water
Mixing Ratio (volumetric):	N/A	Solids (% gravimetric):	65%±3%
Density:	1,54 ±0,05 kg · L ⁻¹	Volatile organic compounds (VOC) Content:	<23 g · L ⁻¹
Touch Dry Time:	30min @ 25°C	Dry Through Time:	3h @ 25°C
Minimum Recoat Time:	3h min @ 25°C	Full Curing Time:	24h @ 25°C
Consumption Rate:	0,33±0,07 kg/m ²	Spreading Rate:	3,00±0,50 m ² /kg

(*) Increased temperature and/or humidity will shorten the working, drying, and recoating times.

NanoPhos S.A.

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

SurfaMix P WBQ

Quartz Adhesion Primer for Smooth Non-Absorbent Surfaces

Surface Preparation

To ensure optimal performance and long-term adhesion, all application surfaces must be thoroughly cleaned, dried, and cleared of any dust, oil, grease, or other foreign matter and contaminants that could act as a bond-breaker. The substrate must be structurally sound and free from loose or crumbling residues to allow the **SurfaPore FX WB** component to effectively penetrate and stabilise the mineral matrix. While specifically engineered for smooth and non-absorbent surfaces—such as visible concrete, mosaics, old marble layers, and previously painted masonry—the product is also highly effective on low-absorbent floor surfaces intended for tile adhesion or floor filling. Before application, the primer requires thorough agitation to ensure the quartz granules are uniformly suspended for a consistent mechanical key. Application should only proceed when the ambient and substrate temperatures are between 5°C and 35°C, ensuring a stable environment for the material to cure and bond correctly.

Application

To ensure a uniform and high-performance finish, **SurfaMix P WBQ** should be applied as follows. Before commencing, ensure that the product is thoroughly agitated to achieve a consistent suspension of the quartz granules. Using a brush or a high-quality fur roller, apply the primer evenly across the prepared substrate, maintaining a steady pressure to ensure the material is worked into the surface profile. Load the tool with a moderate amount of material and spread it across the surface to achieve the recommended coverage rate of approximately 2,5 – 3,5 m² per kg, depending on the porosity and texture of the substrate. It is essential to work in manageable sections, blending each new area into the previously coated wet edge to ensure a seamless and continuous mechanical key. While the product is a single-component, ready-to-use dispersion, it may be diluted with up to 10% water if required by the substrate conditions. Application must take place when the ambient and surface temperatures are between 5°C and 35°C, ensuring adequate ventilation is maintained throughout the process to facilitate proper drying. Once applied, the surface will be touch-dry within 30 minutes at 25°C, and a minimum recoat or subsequent layer interval of 3 hours should be observed to allow the binder and functional components to stabilise and bond effectively. All tools and equipment should be cleaned immediately after use with water before the material sets.

Storage

Store only in the original container. Store the containers sealed in a cool and well-ventilated place. Keep away from direct sunlight. Keep far away from heat sources, naked flames and sparks, and other ignition sources. Keep containers away from any incompatible materials.

Health and Safety

Read the label before use. Safety Data Sheets 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

- 1kg HDPE Plastic Pails
- 4kg HDPE Plastic Pails
- 12kg HDPE Plastic Pails

NanoPhos S.A.

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

SurfaMix P WBQ

Quartz Adhesion Primer for Smooth Non-Absorbent Surfaces

- **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 current edition of this technical data sheet automatically cancels any previous one concerning the same product. For more information, please contact NanoPhos: info@NanoPhos.com
- The technical data sheets and the recommendations for using NanoPhos products are based on our scientific knowledge, laboratory studies, and long-term experience. Therefore, the information provided must be considered indicative and subject to constant review in relation to the circumstances and each practical application. Furthermore, the product's suitability should be examined for each specific use in each case. The end-user bears complete & exclusive responsibility for any side effects that may arise from the incorrect use of the product.

NanoPhos S.A.

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