

SurfaPaint™ ThermoDry Exterior

Thermal Insulating water-based acrylic Paint for Exterior Use

Product Description

SurfaPaint™ ThermoDry Exterior is a high-quality acrylic paint with heat protective properties, ideal for outdoor use. Due to the special thermal insulation components with different granulometry, the final color contributes to energy savings during winter and summer. Its special composition allows the reflection of a large amount of the thermal radiation, which can result in significant energy savings. SurfaPaint™ ThermoDry Exterior offers excellent coverage, strong adhesion, elasticity, resistance to sunlight and salts and a wonderful final matte finish. The application of SurfaPaint™ ThermoDry Exterior can inhibit the development of the Urban Heat Islands, reflecting more than 90% of the incident thermal radiation on buildings.

Recommended Use

Ideal for exterior surfaces, such as exterior masonry, concrete, plasterboard and wherever water-based paints and acrylic paints are applied. Suitable for application in masonry, exposed to adverse weather conditions and for the protection of damaged cementitious surfaces with capillary cracks.

Key Benefits

- ☆ Offers heat protection and energy savings
- ☆ Reflects more than 90% of infrared radiation
- ☆ It is highly resistant to sunlight and salts
- ☆ Water-based paint with low odor and environmentally friendly
- ☆ Combines heat protection with antifungal action and permeable substrate
- ☆ Easy application that gives a wonderful matte finish

Approved by the organization European Cool Roofs Council (ECRC)

Product ID: FA00000004

ECRC EUROPEAN COOLROOFS COUNCIL		Rated Product ID Number	
RATED PRODUCT		Initial	Aged
Solar Reflectance	0.86	-	-
Infrared Emittance	0.90	-	-
Solar Reflectance Index	108	-	-
Climate type	Date of measurement	Manufacturers name	
-	11/12/2015	NanoPhos SA	

European Cool Roofs Council Ratings are determined for a fixed set of conditions which may not be appropriate for determining differing seasonal performance. The actual effect of solar reflectance and thermal emittance on building performance may vary with differing conditions. The manufacturer of this product stipulates that these ratings were determined in accordance with the applicable European Cool Roofs Council procedures.



NanoPhos S.A.

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Technical Specifications

Type ▶	Water-based, 100% acrylic
Color ▶	white – available for tinting in P & D bases for light shades
Density ▶	1.05±0.05 kg/L
pH ▶	9.0 ± 0.5
VOC (Volatile Organic Compounds) ▶	11 g/L ¹
Dilution ▶	Up to 10% with water
Viscosity ▶	110±15 KU
Solid content (% v/v) ▶	45±5%
Touch-dry time ▶	30min @20°C
Drying time ▶	1h @20°C
Min. Recoat Interval ▶	4-6h @20°C
Reflectance (ASTM G 173) ▶	TSR: 90.95% (280-2200nm) NIR: 94.64% (700nm-2200nm) VIS: 92.69% (380-780nm)
Thermal conductivity (EN ISO 12667:2004) ▶	0.1 W/(mK)
IR Emittance Factor (ASTM E408-71) ▶	ε= 0.91
Washability (ISO 11998:2006) ▶	Κλάση II

¹ EU limit value (Directive 2004/42 / EC) of the product ready for use (Category A / c "For external walls of mineral substrate", Type Y): 40 g / L (2010). The maximum VOC content of this product is 11 g / L.

(*) Dry to recoat time is prolonged under low temperature and high humidity

Surface Preparation

All surfaces must be clean, dry and free of dust, oils, grease and loose residue. New cement substrates and new masonry should have matured for more than 3-4 weeks before applying the primer. For best results use the NanoPhos Primer SurfaMix™ P.

Application Instructions

Shake well before use. No dilution is required to cover capillary cracks up to 0.5 mm. For cracks larger than 1mm, cover the gap with a suitable putty. If dilution is required, add up to 10% water by volume. The application temperature should be between 8 - 35°C. Apply 2-3 coats using a good quality brush, roller or spray with a nozzle diameter of 1.4 mm or more. Do not add more than recommended. Make sure the corners and edges are adequately covered. After use, clean the tools with water immediately.

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Spreading Rate

12-18 m²/L, depending on the absorbance of surface application.

Storage

Storage in the original closed package, in a well-ventilated area, at a temperature of 5oC to 35oC, 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

- 3L Plastic Container
- 10L Plastic Container

Available in bases for tinting

Base P

- 2.91L Plastic Container
- 9.70L Plastic Container

Base D

- 2.85L Plastic Container
- 9.50L Plastic Container

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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