SurfaPaint™ ThermoDry Elastomeric Roof Hybrid

Hybrid thermal insulation sealant (polyurethane-acrylic) Elastomeric formulation for roofs, horizontal and inclined exterior surfaces.

PRODUCT DESCRIPTION

SurfaPaint™ ThermoDry Elastomeric Roof Hybrid is a polyurethane-acrylic elastomeric hybrid paint, based on high quality water base with thermal protection. The hybrid formulation is responsible for elastomeric behavior over a wide range of ambient temperatures. With the application of SurfaPaint™ ThermoDry Elastomeric Roof Hybrid, it provides a waterproof coating even in water stains, while being permeable to water vapor allowing surfaces to breathe.
It also effectively covers the microcracks of the substrate. Based on SurfaPaint™ nanotechnology ThermoDry, ensures a significant reduction in thermal conductivity, reflects thermal radiation and limits moisture absorption. The properties of SurfaPaint™ ThermoDry Elastomeric Roof Hybrid increase energy efficiency of buildings, contributes to reducing cooling and heating costs, improving while reducing the CO2 footprint. The product is environmentally friendly, contributing to reducing the urban heat island.

Recommended use

Ideal for waterproofing horizontal and inclined exterior surfaces such as terraces, balconies and minor cracks. Can be applied to concrete, cement, plaster, tiles, bricks, mosaic cement mortar, bituminous membranes (with mosaic, without aluminum layer) and is suitable for sealing terraces with photovoltaics

Key Benefits

- Waterproofs, blocks heat transfer and changes energy
- Reflects more than 90% of IR radiation
- Water resistant
- Excellent opacity and coverage
- Exceptional elasticity and adhesion to the substrate
- Excellent UV durability and alkali resistance
- Odorless, environmentally friendly and low VOC
- Extended lifespan
- Can also be used as a primer (diluted) on concrete surfaces
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SurfaPaint™ ThermoDry **Elastomeric Roof** Hybrid Hybrid thermal insulation sealant (polyurethane-acrylic) Elastomeric formulation for roofs, horizontal and inclined exterior surfaces.

Technical Specifications

Type ÿ Hybrid, polyurethane-acrylic elastomer **Color** ÿ White **Density** **(EN ISO 2811-1)** ÿ 1.00 ± 0.05 g/cm3 **Cleaning solvent** ÿ water **pH (ISO 19396-1)** ÿ 8.50 ± 0.05 g/cm3 **VOC (Volatile Organic Compounds)** ÿ 12 gr/L1 **Viscosity (ASTM D562-10)** ÿ 102 KU **Dilution** ÿ 5-10% by volume with water **Solids (% v/v)** ÿ 56±5 % **Touch-dry time** ÿ 2-3h @20oC (*) **Drying time** ÿ 8-10h @20oC (*) **Min. Recoat Interval** ÿ 24h @20oC (*) **Thermal conductivity (EN ISO 12667: 2004)** ÿ 0.1 W/(mK) **IR Emittance Factor (ASTM E408-71)** ÿ 0.92 **Reflectance (ASTM ÿ 903-96)** ÿ **ÿ** *TSR:* 91.58% (250-2200 nm) **ÿ** *VIS:* 94.79% (380-780 nm) **ÿ** *NIR:* 94.76% (700-2200 nm) **ÿ** *SRI = 106* **Elongation** ÿ **ÿ** 60°C: 400% **ÿ** 23°C: 381% **ÿ** -10°C: 315% **liquid water permeability (EN ISO 1062-3:2008)** ÿ Class ÿÿÿ (w-value = 0.040 kg / m2 h 0.5)

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

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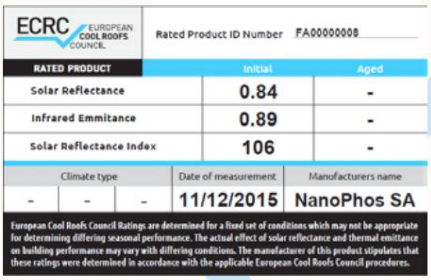
Product ID: FA0000000 8



Surface application

All surfaces must be clean, dry and free of dust, oil, grease and residue. New substrates cement and new masonry should have matured for more than 4 weeks before application Fill cracks and joints either with suitable repair material or by applying a fabric polyester (gauze) impregnated with SurfaPaint™ ThermoDry Elastomeric Roof Hybrid. Before applying SurfaPaint™ ThermoDry Elastomeric Roof Hybrid, the surface is primed using SurfaPaint™ ThermoDry Elastomeric Roof Hybrid itself diluted up to 50% by volume with a base primer water and SurfaMix™ Epoxy Primer WB (for non-porous surfaces, e.g. metal surfaces, ceramic tiles, cement surfaces or old polyurethane coatings).

Application instructions

Mix well before use. Application temperature should be between 8ÿC - 35ÿC. Humidity at the surface must not exceed 6%, and the atmospheric humidity must not exceed 80%. Apply 2 layers, undiluted, using a good quality brush, roller or spray gun. Make sure the corners and edges are properly covered. The covering time must be 24 hours and transverse. Maximum sealing capacity is reached 7 days after application. Good ventilation is required to Ensure adequate drying. Tools and equipment should be cleaned with water immediately after use.

Coverage rate

2±0.5 m2/L, depends on absorption rate (primer + 2 coats)

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Additional Information

With a suitable primer, it can be applied to other types of surfaces. Using SurfaShield™ C maintains reflectivity and more time

storage

Store in the original, closed packaging, in a well-ventilated area, at a temperature of 5oC to 35oC, Protect from sunlight and frost. Unfavorable storage conditions may affect the quality of the product.

Health and safety

Read the product label before use. The safety data sheet is available on the website of NanoPhos www.NanoPhos.com or upon request, by contacting NanoPhos by email: info@NanoPhos.com or by phone: (+30) 2292069312.

Available packaging

- 3L Plastic bucket
- 10L Plastic bucket

Disclaimer: The Technical Data Sheet recommendations for the use of NanoPhos' products are based on ours 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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