

Project:

Thermal Protective Paint
for Interior Walls & Ceilings

Product:

SurfaPaint ThermoDry
Interior

Benefits:

- Conserves energy
- Thermal protection
- Prevents thermal bridges
- Protects against mould growth
- High scrub resistance
- High washability
- Extended lifetime
- Low VOC water-based paint
- Easy application on surface
- Excellent opacity and coverage
- Anti-fungal action

Applications:

Internal surfaces (walls, ceilings, concrete, plaster, board) and wherever emulsion paints are applied.

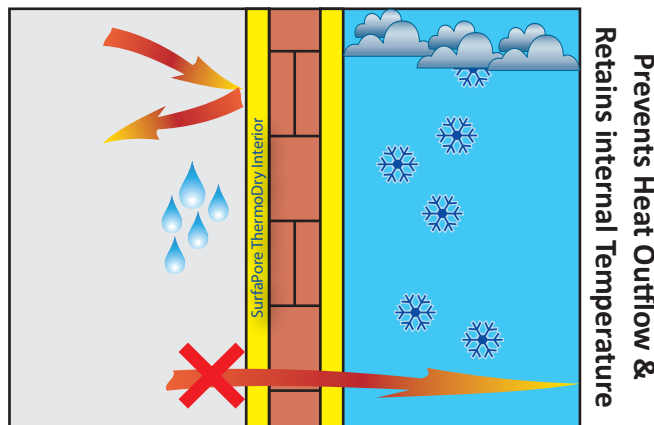


SurfaPaint ThermoDry Interior

Water Based, Thermal Protective Paint for Interior Walls & Ceilings

When thermal energy is transferred through walls and other surfaces, large amounts of energy are often necessary for cooling in the summer and heating in the winter. SurfaPaint ThermoDry Interior is a high quality paint with thermal protective properties, ideal for interior use. Powered by SurfaPore ThermoDry, it contains special thermal protective materials contributing to energy savings during winter and summer. The thermal protective particles block heat transfer, reflect thermal radiation, and create a moisture barrier that can result in significant energy savings. As it prevents thermal bridging, it minimizes moisture condensation and mould growth. SurfaPaint ThermoDry is ideal for children's room, bathrooms, kitchens, hospitals, school buildings, hotels and public areas due to its high washability and scrub resistance. Suitable for every kind of new or old surfaces such as concrete, plaster, drywalls and wood.

The triple action of SurfaPaint ThermoDry Interior paint, i.e. thermal radiation reflectance, heat transfer resistance and water repellence protects painted surfaces and improves energy efficiency.



SurfaPaint® and ThermoDry® logos are registered trademarks of:
NanoPhos SA
Science & Technology Park of Lavrio,
Lavrio 19500, Greece
Tel.: (+30) 22920 69312 Fax: (+30) 22920 69303
W: www.NanoPhos.com E: info@NanoPhos.com

NanoPhos
Pioneering
Nanotechnology 

ECRC EUROPEAN
COOLROOFS
COUNCIL

RATED PRODUCT

<http://coolroofcouncil.eu>

Product ID: FA00000005

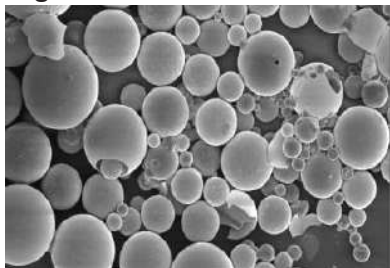
Packaging:

3L & 10L plastic pails

www.NanoPhos.com

SurfaPaint ThermoDry Interior Description

SurfaPaint ThermoDry Interior combines a superior quality interior paint with the thermal protective properties of SurfaPore ThermoDry. This paint composition delivers all the benefits of a high quality paint: Scrub resistance, excellent coverage, anti-fungal action, strong adhesion and coating flexibility. SurfaPaint ThermoDry Interior also contains the ideal quantity of SurfaPore ThermoDry that assures all the benefits of a superior thermally protective paint: Significant reduction in thermal conductivity, reflectance of infrared radiation and decreased water absorption of the final coating. Therefore, the application of SurfaPaint ThermoDry Interior can prevent thermal bridges on walls, a frequent phenomenon of poorly insulated surfaces. It is an ideal solution for preventing mould growth by eliminating humidity condensation on cold wall surfaces, along with its anti-fungal properties. Finally, it reduces internal heat losses increasing the energy efficiency of buildings. It can be used as a tinting base for light shades.



Thermal protective particles of SurfaPaint ThermoDry Interior

International Standards Testing

Density (ISO 2811-1): 1,10±0,05 g/cm³

pH (ISO 19396-1): 8,7±0,5

Thermal conductivity (EN ISO 12667:2004): 0,096 W/(mK).

Emittance (ASTM E408-71): 0,91

Thermal performance of building components (ISO 13786:2007): The paint coating (2 applications) provides thermal protection.

Scrub resistance (ISO 11998:2006): Class 1

Applicability: SurfaPaint ThermoDry Interior can be applied directly on interior wall surfaces (masonry, concrete, plaster, drywalls), and wherever water based, acrylic paints are applied. New substrates from cement or masonry should have cured for more than 3-4 weeks before primer application. For better results apply **SurfaMix P** as a primer. **Preparation:** Ensure all surfaces are clean and dry prior to application. Remove any dust and dirt. **Application note:** Stir well before application. Do not dilute for bridging gaps and hairline cracks of up to 0,5 mm. For cracks bigger than 1mm, fill the gap with a suitable putty. If thinning is required add up to 10% water by volume. Application temperature should be between 8 - 35°C. Apply 2-3 even coats using a good quality brush, roller or by spraying with a tip of a diameter 1,4mm or more. Do not over-brush. Ensure corners and edges are adequately covered. Additional coats should be applied 4-6 hours after the previous application. **Spreading Rate:** 10-12 m²/L. **Drying Time:** Typically 1 hour depending upon coat thickness. Low temperatures and high humidity will lengthen drying times. **Cleaning of tools:** All tools and equipment should be cleaned immediately after use with water. **Storage:** Store in a cool, dry, well-ventilated area away from heat and direct sunlight. Carefully reseal partly used containers. Protect from frost. To avoid risk of spillage, always store and transport in a secure and upright position. The shelf life of the product in airtight containers is 24 months post production date. Dispose of empty container responsibly and according to local legislation. **Safety:** Keep out of reach of children. Avoid breathing dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. If swallowed: Immediately call a poison center or doctor/physician. Do not use empty container for storing food. Avoid contact with skin and eyes. After contact with skin wash immediately with soap and water. Do not use solvent thinners. In case of contact with eyes, rinse immediately with plenty of water and if necessary seek medical advice. **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/a "Matt coatings for interior walls and ceilings", Type WB): 30 g/L (2010). **Maximum VOC content of this product is 10 g/L.**



What is Nanotechnology?

Nanotechnology refers to the scientific field, which deals with very small structures, usually sized below 100 nm. One nanometer (nm) is one billionth of a meter (10⁻⁹ m) - it is so small that if earth were one meter in diameter, then one nanometer would have been the size of an apple! Nanosized materials reveal unique properties when compared to ordinary, bulk materials or even molecules.

NanoPhos at a glance...

At NanoPhos, we take advantage of the unique properties of nanotechnology and invent clever materials that solve every day problems. By harnessing nanotechnology, we seek to create a more comfortable, safe and trouble-free living environment. We transfer innovations out of our lab into the hands of consumers. Our vision is clear: "Tune the nanoworld to serve the macroworld" - in simple terms we make nanoparticles solve common problems. NanoPhos was recognized in January of 2008 by Bill Gates as one of the most innovative companies NanoPhos has been selected as a National Champion representing Greece in the 2016/17 European Business Awards for Innovation. NanoPhos is actively expanding its distribution network. Currently, the company is present in the UK, Scandinavia, Portugal, Spain, France, Germany, Italy, Greece, Cyprus, Romania, Egypt, Sudan, Saudi Arabia, Bahrain, UAE, Qatar, Oman, Iran, India, New Zealand, China, Japan, Mexico, Guatemala, Malaysia, Indonesia and Singapore.



NanoPhos SA has been approved by Lloyd's Register Quality Assurance to follow the EN ISO 9001:2000 Quality, the EN ISO 14001:2004 Environmental and the OHSAS 18001:2007 Occupational Health and Safety Management Systems for the development, production and sales of nanotechnology marine coatings and chemical products for cleaning and protection of surfaces and nanotechnology products.

LIMITED WARRANTY INFORMATION - PLEASE READ CAREFULLY. The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that NanoPhos' products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent. NanoPhos specifically disclaims any other expressed or implied warranty of fitness for a particular purpose or merchantability. NanoPhos disclaims liability for any incidental or consequential damages. This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

ver 0916