

Project:

Heat reflective elastomeric waterproofing paint

Product:

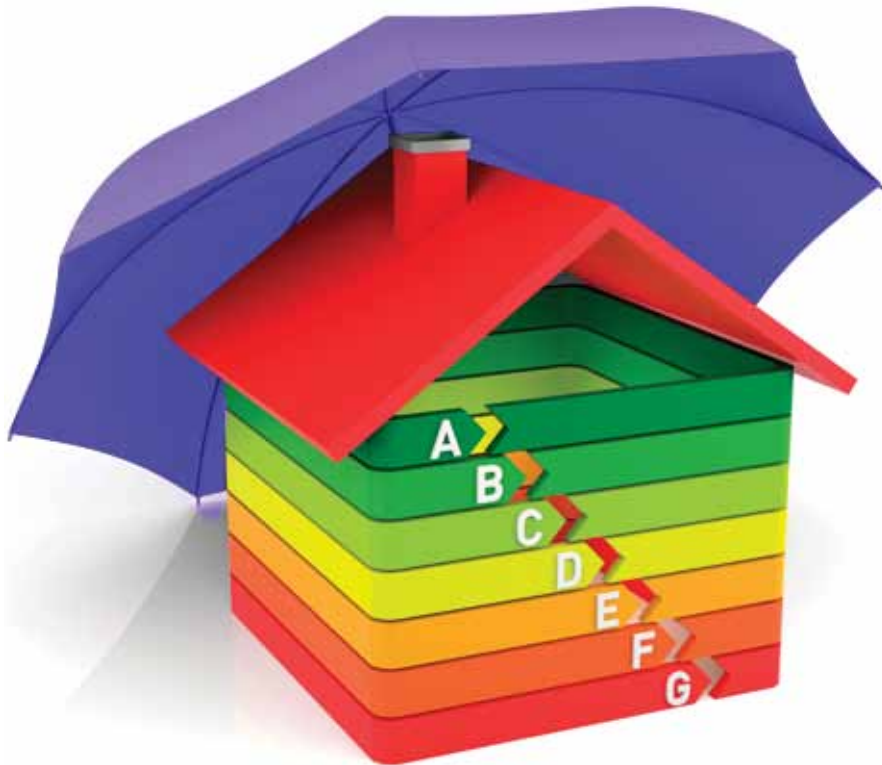
SurfaPaint® Cool Elastomeric Roof Paint

Benefits:

- Waterproofing
- Reflects >90% of IR radiation
- Highly flexible
- Conserves energy
- UV and Alkali resistant
- Extended lifetime
- Low VOC, water based paint
- Easy surface application
- Excellent opacity and coverage

Applications:

- Exterior horizontal and inclining surfaces (e.g. roofs)

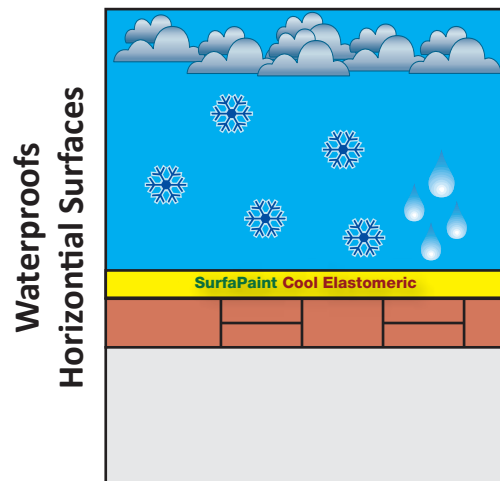
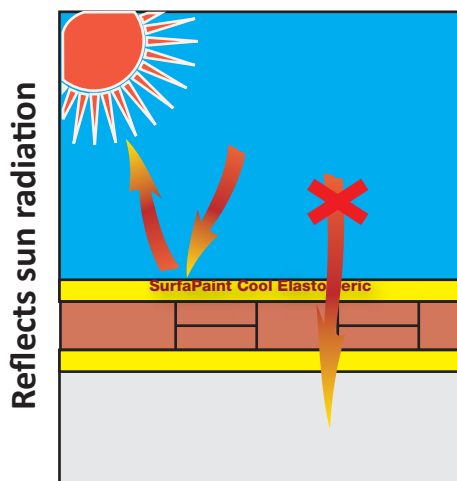


SurfaPaint® Cool Elastomeric

Heat reflective elastomeric waterproofing acrylic paint

Thermal energy “travels” easily through walls and other surfaces. Therefore, large amounts of energy are required for cooling in the summer. SurfaPaint Cool Elastomeric Roof paint is a high quality elastomeric acrylic paint with excellent reflective properties, ideal for exterior use in horizontal and inclining surfaces. It reflects thermal radiation, and create a moisture barrier that can result in significant energy savings. Excellent durability to UV radiation and alkali. SurfaPaint Cool Elastomeric Roof paint forms an impermeable and elastic film which retains its elasticity even under very low temperatures. It is resistant to adverse weather conditions and has long lasting durability.

The action of SurfaPaint Cool Elastomeric Roof paint, i.e. thermal radiation reflectance and waterproofing of painted surfaces



Packaging:

10L containers

www.NanoPhos.com

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SurfaPaint Cool Elastomeric Roof paint Description

SurfaPaint Cool Elastomeric Roof paint is a heat reflective elastomeric waterproofing paint based on acrylic polymer and it is characterised as a cool paint. SurfaPaint Cool Elastomeric Roof paint delivers all the benefits of a high quality elastomeric paint: Excellent opacity and coverage, strong adhesion, coating flexibility, elastomeric behaviour for crack bridging, UV and alkali resistance. SurfaPaint Cool Elastomeric Roof paint also assures all the benefits of a superior elastomeric paint: Reflectance of thermal radiation (infrared) and minimized water absorption of the final coating. Therefore, the application of SurfaPaint Cool Elastomeric Roof paint can prevent the development of Urban Heat Islands, by reflecting more than 90% of the incident heat radiation away from a building's structure. It forms an impermeable and elastic film which waterproofs and resists to adverse weather conditions. It has excellent adhesion on concrete, plaster, roof tiles, bricks, wood, tar etc.

Roller application of SurfaPaint Cool Elastomeric Roof Paint



International Standards Testing

Thermal Reflectance: >90% Reflection of the InfraRed region of light (ASTM G173-03).

Liquid water permeability: "non-permeable" by water according to EN DIN 1062-3

Fungal resistance: Excellent resistant against fungi & algae.

Elasticity: 23°C: 181%, 60°C: 115%, -10°C: 200%.

Crack binding: Covers hair cracks up to 1,20mm.

Application: SurfaPaint Cool Elastomeric Roof paint can be applied directly on exterior horizontal (e.g. terraces) and inclining surfaces. New substrates from cement or masonry should have cured for more than 3-4 weeks before primer application. Adverse conditions during or immediately after application may affect the coating's properties. **Preparation:** Ensure all surfaces are clean and dry prior to application. Remove any dust, dirt and flaking parts. **Application note:** Stir well before application. Fill the bridging gaps and hairline cracks with a suitable putty. Surfaces are primed with SurfaPaint Cool Elastomeric Roof paint thinned with water up to 50%. Application temperature should be between 5 - 35 °C. Apply 2 coats using a good quality brush, roller or by airless spraying without thinning. Ensure corners and edges are adequately covered. Additional coats should be applied 24-36 hours after the previous application. **Spreading Rate:** $2 \pm 1 \text{ m}^2/\text{L}$. **Drying Time:** Typically 4 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 18 months post production date. **Safety:** Keep out of reach of children. Do not use empty container for storing food. Avoid contact with skin and eyes. After contact with skin wash immediately with soap and. Do not use solvent thinners. In case of contact with eyes, rinse immediately with plenty of water and if necessary seek medical advice. If swallowed seek medical advice immediately and show this container or label. Do not empty into drains or watercourses. Dispose of empty container responsibly and according to local legislation. **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/c "Exterior walls of mineral substrate", Type WB): 40 g/L (2010). **Maximum VOC content of this product is 30 g/L.**

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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 and also received the 1st prize for innovation at the prestigious 100% Detail Show in London. SurfaShield technology, received the prestigious GAIA award at the 2010 International Building and Construction Show BIG5 in Dubai for its environmentally friendly and innovative profile. NanoPhos is a rapidly growing company that is actively expanding its distribution network. Currently, the company is present in the UK, Scandinavia, Germany, Portugal, France, Italy, Romania, Greece, Cyprus, Georgia, Turkey, Egypt, Saudi Arabia, Bahrain, Qatar, UAE, Iran, India, Thailand, China, New Zealand, Japan and Mexico.

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NanoPhos SA has been approved by Lloyd's Register Quality Assurance to follow the EN ISO 9001:2008 Quality Management System and EN ISO 14001:2004 Environmental Management System for the production and sales of chemical products for cleaning and protection of surfaces and nanotechnology products.

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