

Project:

Water repelling, breathable acrylic paint for interior and exterior application

Product:

SurfaPaint Aqua X

Key Benefits:

- Water repellent
- Cool paint
- High Breathability
- Excellent adhesion
- High coverage and opacity
- Reduces dust accumulation
- Reduces mould growth
- Excellent washability
- Low VOC
- Environmentally friendly

Applications:

- Interior and Exterior surfaces
- Masonry

Packaging:

10 L pails

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SurfaPaint Aqua X

Water repelling breathable acrylic paint for interior and exterior application

SurfaPaint Aqua X is a water based acrylic paint that provides effective water repellency. It prevents the external humidity and rainwater from penetrating into the building substrate, reducing cracking and swelling. SurfaPaint Aqua X is ideal for applications on buildings in urban areas or sea-side, where increased levels of humidity exist. SurfaPaint Aqua X is characterized as cool due to its high solar reflectance.



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Nanotechnology 

SurfaPaint Aqua X Description

SurfaPaint Aqua X is a water repelling paint that protects the masonry surface while it allows it to breathe. As it repels water and reduces water absorption, it prevents premature paint failure and mould growth. Subsequently, the substrate is efficiently protected and therefore not affected by external, weathering factors. SurfaPaint Aqua X exhibits its functionality for a long period of time, extending the life of the paint coated surface. The paint is white and can be tinted with pal colours. Hydrophobic properties of a SurfaPaint Aqua X are depicted below.



Water droplet on
painted surface with
normal paint
Contact angle: 60°



Water droplet on
painted surface with
SurfaPaint Aqua X
Contact angle: 126°

International Standards Testing

Reflectance (ASTM E 903-96): total 90.98% (250-2200 nm), infrared 94.19% (700nm - 2200 nm).

Density (ISO 2811-1): 1.30±0.05 g/cm³

pH (ISO 19396-1): 8.8±0.5

Fungal resistance (BS3900-G6:1989): excellent resistant against fungi & algae, Class 1

Water Vapour Permeability (cup method EN ISO 7783:2011): Sd

Applicability: SurfaPaint Aqua X can be applied directly on exterior or 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. 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 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.**

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What is Nanotechnology?

Nanotechnology refers to the scientific field, which deals with the research and creation of small matter particles, 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 and into the hands of consumers. Our vision is clear: "Tune the nanoworld to serve the macroworld" – in simple terms we make nanoparticles to solve common problems. NanoPhos was recognized in January 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. NanoPhos is a rapidly growing company that is actively expanding its distribution network. Currently, the company is present in the UK, Norway, Sweden, Denmark, Portugal, Spain, France, Italy, Greece, Cyprus, Egypt, Sudan, Saudi Arabia, Bahrain, UAE, Qatar, Oman, Iran, India, New Zealand, China, Japan, Mexico, Guatemala, Thailand, Malaysia and Singapore.

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NanoPhos SA has been approved by Lloyd's Register Quality Assurance to follow the EN ISO 9001:2000 Quality Management System and the environmental management system EN ISO 14001:2004 for the development, production and sales of chemical products for cleaning and protection of surfaces and nanotechnology products. Furthermore, it is certified for occupational health and safety management systems with OHSAS 18001:2007.