

## Project:

Premium quality nanostructured primer for exterior or interior emulsion paints.

## Product:

SurfaMix P

## Key Benefits:

- Consolidates dusty or friable surfaces
- Enhances adhesion to a broad range of substrates
- Prevents peeling off of top coat emulsions
- Improves appearance of top coat
- Deep penetration in porous surfaces due to its nanostructure
- Dilutable to 4 to 5 times its original volume
- Bluish colour for easy application
- Cost effective
- Water based & odourless

## Applications:

Versatile primer for use on concrete, masonry, already painted surfaces, plaster, cementitious renders, screeds and mortars.

## Packaging:

1L, 4L and 10L Plastic canisters

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## SurfaMix P

### Nanostructured Water-based Primer for Emulsion Paints

SurfaMix P is a versatile water based primer for surface preparation, before the application of emulsion paints. Ideal for exterior or interior building surfaces, such as concrete, masonry, plaster, cementitious renders, screeds and mortars. The fine resinous nanoparticles that exhibit a size distribution around 60 nm can penetrate deep in the substrate yielding a coherent and solid result for the application of emulsion paints. SurfaMix P can be also applied on already painted areas, when a paint refreshing is required. Well engineered to be applied on humid surfaces, where mould problems exist. DeSalin AM should be used as a cleaner on mouldy surfaces before use of the primer. SurfaMix P reduces the water absorption coefficient of porous substrates. It does not affect the breathability of the substrate. It is water based, odourless and environmentally friendly while it is slightly bluish in colour for identifying the application pattern. SurfaMix P is cost effective, as it can be diluted in water up to 4 (porous cementitious renders or masonry) or 5 times (painted substrates) its original volume.

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**NanoPhos**   
Pioneering  
Nanotechnology

## Description of SurfaMix P

SurfaMix P is a penetrating primer with a particle size 60 nm that allows finishing paint to adhere much better than if it were used alone. For this purpose, it is designed to adhere to surfaces and to form a binding layer that is better prepared to receive the paint. In practice, SurfaMix P is often used when painting many kinds of porous materials, such as concrete and especially substrates that are not water resistant and will be exposed to the natural elements. Priming gypsum board (drywall) is also standard practice with new construction because it seals the wall and aids in preventing mold. Apart from its nano engineered nature, SurfaMix P is a concentrated formulation, exhibiting a much cost effective practical use, as each part of SurfaMix P can be diluted in 3 or 4 parts of water, yielding 4 or 5 times its original volume.

### International Standards Testing

**Liquid water permeability (ISO 1062-3:2008):** "non-permeable" by water

**pH (ISO 19396-1):** 7.6±0.5

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

**Scrub resistance (EN ISO 11998:2006):** Class 1

**Water Vapour Permeability (cup method EN ISO 7783:2011):** Sd <0,05m

**Applicability:** SurfaMix P can be applied directly on exterior or interior wall surfaces (masonry, concrete, plaster, drywalls), and wherever emulsion paints are to be applied. 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. **Surface Preparation:** Ensure all surfaces are clean and dry prior to application. **Application note:** Shake well before application. For one volume part of SurfaMix P, dilute by adding 3 volume parts of water (porous masonry substrates) or 4 volume parts of water (paint covered surfaces). Application temperature should be between 8 - 35°C. Apply one even coat 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. **Spreading Rate:** 8-12 m<sup>2</sup>/L depending on the porosity of the substrate. **Consumption Rate:** 30-40 m<sup>2</sup>/L after dilution. **Drying Time:** Typically 1 hour depending upon coat thickness. Low temperatures and high humidity will lengthen drying times. As a good practice, apply emulsion paints 24h after primer application. **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/h "binding primers", Type WB): 30 g/L (2010). Maximum VOC content of this product is 8 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<sup>-9</sup> 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 1<sup>st</sup> 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.