

Nano Stone Sandstone

PRODUCT DATA SHEET AND APPLICATION GUIDE

DATA SHEET

DESCRIPTION

Nano Stone Sandstone is a specialist water-based penetrating and impregnating sealer. The solution is intended for permanent protection of e.g. sandstone substrates by sealing the absorptive stone often used for facades or as walked-on surfaces, such as terraces, pavements, floor panels or stairs. When applied twice, its oleophobic (oil repellent) properties become highly effective, so it can be used for protection of surfaces that are in extreme use, particularly places exposed to contamination with oils. The lasting deep penetration of the seal also ensures effective hydrophobic (water resistant) protection after one application.

Sandstones treated with **Nano Stone Sandstone** penetrating and impregnating sealer stay clean longer and are free from staining after rain, contamination particles or dust which cling to facades, walls, floors and surfaces. It protects surfaces from contamination caused by strongly colouring liquids that absorb quickly into unprotected surfaces and leave permanent stains, such as coffee or tea. On treated surfaces the water forms into droplets, ('water beading' effect), because the surface tension is so tight that water does not adhere to the surface. It is practically free from volatile organic compounds.

SCOPE OF USE

Suitable for all types of sandstone, both vertical and horizontal surfaces: facades, terraces, pavements, paving slabs, floor panels, window ledges, lintels or stairs.

SAFETY

The product is generally recognized as safe and biodegradable. There are no health concerns once the product is applied. Do not swallow. Keep out of reach of children.

PROPERTIES

Nano Stone Sandstone forms a vapour-permeable impregnated layer with hydrophobic and oleophobic properties. Protected surfaces remain clean for a longer period of time and can be cleaned easier. **Nano Stone Sandstone** ensures slower growth of microorganisms or their total elimination. It produces a very distinctive water beading effect, for efficient run off and ease of cleaning.

No sealant with nano-molecules that have this penetrating function can be eliminated from the surface without physical force. This is unlike silicone that perishes under influence of weather conditions (e.g. acid rain, temperature variation, sunlight, frost or ice).

The coating durability is virtually unlimited. It is UV resistant and does not yellow.

STORAGE

The product should be stored in dry and frost free environment. It has a shelf life is 2 years and once opened it should be used up.

PACKAGING

1 litre jerry can with safety cap
5 litre jerry can with safety cap

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DIRECTIONS FOR USE

The surface to be treated with **Nano Stone Sandstone** sealer must be relatively clean, dry and free from moss and lichen. Before application, it is required to remove dirt and remains of detrimental substances, including lichen, algae and moss. Otherwise, when impregnated, these may remain for years. As a result of cleaning, the sandstone surface absorbs water, so it is required to wait until this dries (normally several hours at temp. above 20°C). Also, any fresh cement mortar must harden and dry, for example after laying the panels, installation of stairs, etc.

Nano Stone Sandstone can be applied by spraying, using a brush or a roller but also directly, by pouring over the stone. **Nano Stone Sandstone** can be applied in any direction. There is no need to apply it carefully as it does not leave any runs and does not decolour the stone. There will never be any surplus of the agent during infusion into the sandstone; this is usually a very absorptive substrate. It is important that after the first plentiful pouring over the stone, the surface should shine with excess sealer for at least more than ten seconds.

Wait 30 to 40 minutes to apply the sealer for the second time. Try not to exceed 40 minutes as deeper penetration guarantees better oleophobic properties. After application of the last layer, wait at least 10 hours for a new bond inside the substrate to be formed and completion of the protection process. The seal reaches its maximum potential after 24 hours.

The established protective membrane can be renewed after a couple of years (preceded by surface cleaning) through single application of the agent. The initial treatment will still be fairly solid; bonding is assumed to be without time limit, but in fact it depends greatly on operational use of the impregnated sandstone.

IMPORTANT GUIDANCE

Due to the content of water in **Nano Stone Sandstone**, the solution is not frost-proof and so cannot be used at temperatures below +2°C. The recommended air and substrate temperature is 10°C to 40°C. Application should not be carried out during strong winds or when it is likely to rain.

PLEASE NOTE

Always test the effectiveness and suitability by testing the sealer in an inconspicuous area. These treatments embellish the surfaces treated, guarantee optimal useful properties and ensure the longevity of the treated facade.

EFFICIENCY

Regardless of the manner of application, it is assumed that one litre of sealant will coat 6 - 8 m² in case of a single application and 5 to 7 m² in the case of double application.



NANO STONE
SANDSTONE

Special formula for all types of sandstone

