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Silimper[®] Nano

Silane-Siloxane nano-molecular impregnation compound

Description of the product

Water-repellent & waterproofing, water-based silane-siloxane nano-emulsion that exhibits high penetration ability and hydrophobic performance, suitable for exterior and interior building surfaces.

Applications

Silimper[®] Nano is suitable for the impregnation of vertical or inclined mineral porous substrates, such as concrete, plasters and renderings, asbestos cement, brick, roof tiles, stone with continuous surface (i.e. without cracks), protecting from water absorption without changing the appearance of the surface.

Properties/Advantages

- Shows high penetration and deep waterproofing, due to its nano-molecular structure, reducing the water uptake
- Displays early repellence towards water, reacting chemically and bonding with the substrate, thus providing durable hydrophobicity
- It prevents rain from impregnating into the surface and protects the substrate from cracking due to frost.
- It is resistant to alkalis and prevents from efflorescence
- Improves the heat insulating properties of the substrate, reducing the heat conductivity
- Reduces dirt pick-up and limits fungal growth, thus facilitating the cleaning of the surface, allowing it at the same time to breathe
- Does not form sticky silicone films
- Does not change the original appearance of the surface
- Solvent-free and VOC-free

Technical Characteristics

Density (EN ISO 2811.01)

1.00 ± 0.01 kg/l

pH value (ISO 1148)

7.5 – 8.5

Consumption

100-200ml/m² (The consumption depends on the application method and the absorptivity of the substrate)

Drying time (25°C)

1-4 hours

Recoating time (25°C)

< 2 hours

Full cure time (25°C)

24 hours



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Water penetration value (RILEM Test Method 11.4)

0 ml/min (concrete surface)

Water absorption and resistance to alkali (EN 13580)

Absorption ratio <7,5%

Absorption ratio <10,5% after immersion in alkali solution

Drying rate coefficient (EN 13579)

Class II >10%

Application conditions

Ambient Temperature

From +5°C to +35°C

Substrate Temperature

From +5°C to +35°C

Substrate Moisture Content

< 5%

Instructions for use

Surface preparation: Clean the surface from dust, mildew, dirt or any poorly adhering material. Use mechanical means or water blasting to clean the substrate. Avoid the use of detergents or soap, as they affect the adhesion of the product to the surface.

Application: Silimper[®] Nano is ready for use. Apply one layer on a dry surface with a brush, roller, or spray gun, working from the higher to the lower part of the substrate.

Special notes

- Attains its full repellence to water within a few hours after its application and when the surface has been saturated during the application. For very absorptive and porous surfaces apply a second coat.
- Silimper[®] Nano should not be applied under wet conditions, or if wet conditions are expected to prevail during the drying period. If the surface has been cleaned by water blasting, it is advisable to let it dry for 2 - 3 days and apply the product afterwards.
- Allow at least 4 weeks to pass between the casting new concrete and the product's application.
- Silimper[®] Nano is not resistant to acids.
- For very absorptive and porous surfaces apply two coats.

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Silimper[®] Nano

Colour	Milky white
Packaging	20L, 3L and 1L
Cleaning of tools	Use water
Storage stability	Silimper[®] Nano is stable for 18 months when kept unopened in its original container, protected from frost and direct sunlight



The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX[®] SA. It is offered as a service to designers and contractors in order to help them find potential solutions. However, as a supplier, NEOTEX[®] SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.