

Silimper[®] Nano

Silane-Siloxane nano-molecular impregnation compound

Description of the product

Silane-siloxane water-based nano-molecular impregnation compound, with high penetrating ability and hydrophobic performance, ideal for applications on exterior and interior construction surfaces as a water-repellent

Fields of Application

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

- Exhibits high penetration, due to its nano-molecular structure, minimizing the water uptake
- Displays early repellence towards water, reacting chemically and bonding with the substrate
- Prevents rain from impregnating the surface & protects it 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
- Facilitates the cleaning of the surface by limiting dirt pick-up & fungal growth
- Vapour permeable, allows the structure to “breathe”
- Does not form a skin on the surface and does not alter its appearance
- Does not change the original appearance of the surface
- VOC-free - Contains no solvents
- Certified with CE (EN 1504-2)

Technical Characteristics

Appearance	Milky white
Density (EN ISO 2811.01)	1.00 ± 0.01 kg/l
pH value (ISO 1148)	7.5 – 8.5
Consumption	100-200ml/m ² (The consumption depends on the application method and the absorptivity of the substrate)
Drying time (25°C)	1-2 hours

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Silimper[®] Nano

Recoating time (25°C)	< 2 hours
Full cure time (25°C)	24 hours
Water penetration value (RILEM Test Method 11.4)	0 ml/min (concrete surface)
Water absorption and resistance to alkali (EN 13580:2002)	Absorption ratio <7,5% Absorption ratio <10% after immersion in alkali solution
Depth of penetration (EN 14630)	Class I <10 mm
Drying rate coefficient (EN 13579)	Class I >30%

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

- Application conditions: Substrate moisture <5% / Atmospheric and substrate temperature: +5°C min. / +35°C max.
- 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.

Packaging

20L, 3L and 1L

Cleaning of tools

Use plenty of water immediately after application

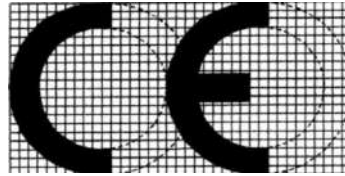
Storage stability

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Silimper[®] Nano is stable for 18 months when kept unopened in its original container, protected from frost and direct sunlight

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Dop No./4950-39

EN 1504-2

Silimper® Nano

Hydrophobic impregnation surface protection product

Depth of penetration (EN 14630)	Class I <10 mm
Water absorption and resistance to alkali (EN 13580:2002)	Absorption ratio <7.5% compared with the untreated specimen
	Absorption ratio <10% (after immersion in alkali solution)
Drying rate coefficient (EN 13579)	Class I >30%
Dangerous substances	Comply with 5.3

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.