

Silimper[®] Nano LM

Water & oil repellent impregnation compound



Description of the product

Water & oil repellent, water-based nano-composition that exhibits high penetration ability and hydrophobic performance, suitable for exterior and interior building surfaces.

Applications

Silimper[®] Nano LM is suitable for the impregnation of vertical or inclined mineral porous substrates, such as concrete, plasters and renderings, asbestos cement, bricks, roof tiles, natural stones, limestones, sandstones with continuous surface (i.e. without cracks), porous marbles, protecting from water and oil 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 and oleophobicity
- 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, VOC-free and PFOA-free (does not contain toxic substances)

Technical Characteristics

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)	2 hours

Silimper[®] Nano LM

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)	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	< 4%

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 LM 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 and oil 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 LM 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 LM is not resistant to acids.
- For very absorptive and porous surfaces apply two coats.

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



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