Silimper® Nano LM

Water and oil repellent nano-molecular impregnation compound

Description

Water and oil repellent, water-based fluorinated nano-molecular impregnation compound, that exhibits high penetrating ability and hydrophobic performance, suitable for exterior and interior construction surfaces

Fields of application

Vertical (or inclined) mineral porous surfaces such as porous marbles, concrete, cement mortars, plaster, bricks, roof tiles, joint grout, limestone, sandstone, natural stone with continuous surface (i.e. without cracks)

Properties - Advantages

- Exhibits high penetration due to its nano-molecular structure, protecting from humidity and minimizing the water uptake
- Does not alter the appearance of the surface – no skin formation or yellowing
- Displays early repellence towards water, providing durable hydrophobicity and oleophobicity
- Prevents rain from impregnating the surface and protects it from cracking due to frost
- Facilitates the cleaning of the surface by limiting dirt pick-up & fungal growth
- Presents high resistance to alkalis and prevents efflorescence
- Vapour permeable, allowing the structure to “breathe”
- Does not contain solvents or toxic substances

Appearance (cured)

Transparent

Packing

3L and 1L

Technical characteristics

Density (EN ISO 2811-1)	1,00kg/L (±0,05)
pH	7,5-8,5
Water penetration value (RILEM Test method 11.4, concrete surface)	0ml/min
Consumption: 100-200ml/m² in one layer (depending on the application method and the absorptivity of the substrate)	

Application conditions	
Substrate moisture content	<4%
Relative air humidity (RH)	<80%
Application temperature (ambient - substrate)	+5°C min. / +35°C max.

Curing details	
Drying time (+25°C, RH 50%)	2 hours
Dry to recoat (+25°C, RH 50%)	<2 hours
Full hardening (+25°C, RH 50%)	24 hours
** Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them*	

Instructions for use

Substrate preparation

The surfaces must be stable and continuous (without cracks), clean, dry, protected from rising moisture and free of dust, oil, grease, mould and loose materials. Cleaning must be done by mechanical means or by water jetting. It is not recommended to use detergents, as they may affect the material's performance.

Application

Silimper® Nano LM is ready to use. After thorough stirring, **Silimper® Nano LM** is applied onto the dry surface in one layer, by roller, brush or spray, until full impregnation. The application is done starting from the highest parts of the surface and ending at the lowest parts. On highly absorbent substrates, it is recommended to apply an additional layer within 2 hours after applying the previous one. The application surface must remain dry for at least 24 hours after the application.

Special notes

- **Silimper® Nano LM** should not be applied under wet conditions, or if wet conditions or rainy weather are expected to prevail during the curing period of the product
- If the substrate has been cleaned by water jetting, **Silimper® Nano LM** should be applied after the surface has dried completely (it is recommended to wait for a period of 2-3 days)
- In case of new concrete, **Silimper® Nano LM** must be applied after at least 4 weeks have passed since its laying
- **Silimper® Nano LM** is not resistant to acids
- It should not be applied on surfaces that are subjected to hydrostatic pressures

Appearance	Clear-yellowish liquid
Appearance (cured)	Transparent
Packing	3L and 1L in plastic pails
Cleaning of tools – Stains removal	By water immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AhWB: 30g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <30g/l
UFI code	FDD0-40NK-000E-37PD
Versions	**Silimper® Nano,** silane-siloxane, water-based nano-molecular water-repellent impregnation compound **Neotex® Silimper,** siloxane-based water repellent of high penetrating ability
Storage stability	18 months, stored in its original sealed packing, protected from frost, humidity and exposure to sunlight

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