



Emcephob L (formerly Nisiwa L)

Solvent-free hydrophobic agent

Product Properties

- Water based, silane based hydrophobic agent
- Reduces capillary water adsorption
- Extremely water repellent
- Fast and sticky-free drying
- Not visual, non-film forming
- High protection against frost and de-icing salts
- Efflorescence and impurity reduction on concrete surfaces
- Reduces algae and moss growth
- Rain impermeable
- Alkali-resistant
- Can be brushed, rolled or sprayed
- Low emission level acc. to AgBB
- Solvent free
- Ready to use

Areas of Application

- Hydrophobization of alkali and cement based surfaces
- Hydrophobization of precast elements
- Hydrophobization of fairfaced concrete
- Hydrophobization of surfaces enhanced with Concrete cosmetics, e.g. with Emcefex and Nafuquick
- Hydrophobization of Concrete retouch and glaze surfaces, e.g. with Repacryl

Application Notes

General information

To achieve a high hydrophobic effect the substrate must be dry and absorbent. The drier the concrete's surface, the deeper the penetration. The concrete age must be at least 4 weeks.

Emcephob L can be applied also on a jung concrete surfaces with a max. residual moisture of 4 %. At this the substrate absorbency is reduced, negative influences have not been identified.

In case of fairfaced concrete we recommend to create test surfaces. At the application please respect the ambient and near the surface moisture conditions.

Substrate Preparation

The substrate must be clean, solid, non-flaking and free from any anti-adhesives (e.g. separating agents). Penetration of moisture behind joints, pores and cracks must be avoided.

Application

Emcephob L is ready to use. The application can

be made by brushing, spraying or rolling. Apply the material in one layer from the bottom up vertically and subsequently cross-wise horizontally.

Emcephob L dries very fast. Already after 30 minutes it appears a high repellency. However a full effect of the hydrophobization will be reached approx. 48 hours after product's application. Due to the hydrophobic - so-called lotus - effect of this product, liquids and dirt will be drained off the concrete surface instead of entering in. However, it is not possible to apply any other coatings on treated areas.

General information

Fresh treated surfaces with Emcephob L are min. 6 hours, better 48 hours to be protected from rain (20 °C, 60 % RH)

Emcephob L is a temporary surface protection, whereby through environmental influences the effectiveness is declining. Therefore Emcephob L should be renewed in regular intervals, latest after 5 years.



Technical Data for Emcephob L

Characteristic	Unit	Value*	Comments
Density	g/cm ³	approx. 1.01	
pH value		4.5 ± 0.1	
Consumption	ml/m ²	approx. 100 - 150	one layer, depending on substrate
Processing conditions	°C	> +8 - < +30	Air, material, substrate temperature
Drying time	minutes	10 - 15	
Drying rate	g/m ² .h	0.718	acc. to EN 13579
Coefficient of drying	%	93	acc. to EN 13579
Reaction time	hours	48	Protect from rain!
Depth of penetration	mm	14	class II according to EN 1504-2

* At 23 °C and 65 % relative humidity

Product Characteristics for Emcephob L

Internal production supervision	DIN EN ISO 9001
Base	Silane
Colour	Transparent
Form	Liquid
Cleaning of tools	Tools can be cleaned immediately after use with clean water
Storage	Can be stored under dry and frost-free conditions for approx. 12 months
Form of delivery	10 l canister 30 l canister; 1 pallet (16 canisters of 30 l) 200 l barrel
Disposal	To protect our environment please empty the packs completely

Property specifications are based on laboratory tests and may vary in practical application. To determine individual technical suitability, preliminary suitability test should be carried out under the application conditions.

Safety advice

Please take notice of the safety information and advice given on the packaging labels, Safety Information Sheets and General Application Advice. Water hazard class: 1

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 02/20. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.