

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
- Very low emission according to GEV-EMICODE, categorie EC1^{PLUS}
- Low emission level acc. to AgBB
- Solvent free, free of softening agents
- 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 ADVICE

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 young 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 threated 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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm ³	approx. 1.01	
Application conditions	°C	> 8 < 30	air, substrate and material temperatures
Consumption	ml/m ²		depending on condition of substrate
Waterproofing		100 - 150	
Penetration depth	mm	14	grade II per EN 1504-2
Drying time	minutes	approx. 10 - 15	at 20°C and 65% rel. humidity
Drying rate	g/m ² h	0.718	EN 13579
Reaction time, pot life	hours	48	protect from rain
Drying coefficient	%	93	EN 13579
Value		approx. 4.5	
Delivery Form		10 l canister; 30 l canister; 1 pallet (16 canisters of 30 l); 200 l barrel	
Base		silane	
Colour Shade		transparent	
Equipment Cleaning Agent		water	
Self-Monitoring		EN ISO 9001	
Storage		Can be stored in cool and dry conditions for at least 12 months in original unopened packs.	
Packaging Disposal		Make sure single-use containers are completely empty. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.	

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets.

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2100005350]