

Emcephob WM

Ready-to-use hydrophobic agent



PRODUCT PROPERTIES

- Based on a water-based polysiloxane
- Non film-forming
- Reduces the water absorption
- Increases the resistance against frost and de-icing salts
- Application by roller, flow coating or airless spraying
- Suitable for use in spray- and splash zones of de-icing salts
- Penetration depth according to EN 1504 part 2, class I
- Can be overcoated with MC-Color Proof pure, MC-Color Proof pro, MC-Color Proof vision, MC-Color Flair pure, MC-Color Flair pro and MC-Color Flair vision
- Tested and approved as OS 1 and OS 2 surface protection system
- Does not provide a lotus effect

AREAS OF APPLICATION

- Hydrophobic impregnation for alkaline, cement-bound surfaces, e.g. concrete, rendering, sand-lime brick
- Hydrophobic impregnation for concrete repair mortars
- In combination with coating materials as preventive concrete protection
- REACH-assessed exposure scenarios: periodical water-contact, periodical inhalation, application
- Certified according to EN 1504 part 2 for principles 1, 2 and 8; procedures 1.1, 2.1 and 8.1

APPLICATION ADVICE

Substrate Preparation: The substrate must be clean and free from all loose particles, dust, oil and other contaminants.

The substrate must be absorptive to allow the hydrophobic agent to penetrate. Water-saturated or wet substrates should not be hydrophobised, as the hydrophobic agent will not be able to penetrate the material. For clinker and brick walls or natural stone, please ask for our assistance.

Application: Emcephob WM is a low-viscosity, water-based solution and must be mixed thoroughly before application. The product may be applied by roller, flooding or airless-spraying. To reduce dip shading/runners (flooding-method) on vertical areas, you should work from bottom to top. Emcephob WM must be applied until the substrate is saturated. If a second layer should be required for certain circumstances, it must be applied fresh-in-fresh. Green concrete should be at least 4 - 6 weeks old before it is overcoated.

General Information: Emcephob WM must not be applied onto steel, galvanized surfaces, polymers, non-ferrous metal and bituminous surfaces. Suitable protective measures are to be provided. Hydrophobic impregnation is generally used in the course of protection and repair measures, e.g. to improve the resistance against frost and de-icing salts.

As the effectiveness as stand-alone measure (OS 1) is temporary, hydrophobizing should be renewed in regular intervals.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	0.98	
Active ingredient content	mass %	22.9	
Application conditions	°C	≥ 8 ≤ 25	air, substrate and material temperatures
	%	≤ 85	rel. humidity
	K	3	above dew point
Consumption 1)	ml/m ²	70 - 150	
Penetration depth	mm	< 10	grade I per EN 1504-2
Rain resistant after	hours	approx. 4	
Waiting times	hours	6 - 48	until overcoating

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

1) The consumption values depend on the impermeability, absorbency and type of substrate. To determine the object-specific consumption quantities, it is advisable to create test areas.

Delivery form	10 and 30 l canisters
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs. Protect from frost.
Packaging disposal	Make sure single-use containers are completely empty.

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. [2300012777]