

Emcephob WM

Ready-to-use, water-based hydrophobic agent

Product Properties

- Polysiloxane-based binder
- Reduces water absorption
- Increases resistance to de-icing salts
- Application by roller, flooding or spraying
- Non film-forming
- May be used in splash and spray zones
- May be coated with Betonflair WG/WS, Nafufill BS and Emcephob NanoPerm P
- Tested, approved and externally supervised according to ZTV-ING part 3, paragraph 4 as OS-A and OS-B system
- Certified according to EN 1504 part 2

Areas of Application

- Hydrophobic impregnation for alkaline, cement-bound surfaces
- Hydrophobic impregnation for sand-lime brick and concrete repair mortars
- In combination with coating materials as preventive concrete protection
- REACh-assessed exposure scenarios: periodical water-contact, periodical inhalation, application
- Principle 1, 2 and 8; procedure 1.1, 2.1 and 8.1 (EN 1504-9)

Application

Substrate Preparation

The substrate must be clean and free from all loose particles, dust, oil and other contaminants. The required surface tensile strength must be in compliance with technical regulations. The substrate must be absorbent. Water-saturated or wet substrates should not be hydrophobised, as the hydrophobic agent will not be able to penetrate the material.

For clinker bricks 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.

General Information

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 an independent measure it reduces the capillary absorption of water, however this effect is only temporary.

Hydrophobic impregnation should therefore be renewed at certain intervals.

Emcephob WM does not create a drip-off effect.

External Supervision

MPA Braunschweig

Technical Data for Emcephob WM

Characteristic	Unit	Value*	Comments
Density	kg/dm ³	0.98	
Active ingredient content	mass- %	22.9	
Coverage**	ml/m ²	70 - 150	
Penetration depth of hydrophobic agent	mm	2.7	test report M 5420/1 (average)
Rain proof	hours	approx. 4	
Ready for overcoating	hours	24 24	with Betonflair WG with Nafufill BS
Application conditions	°C % K	≥ 8 - ≤ 30 ≤ 85 3	air, material and substrate temperature relative humidity above dew point

Product Characteristics for Emcephob WM

Delivery	10 and 30 l canisters
Storage	Can be stored for at least 6 months in original unopened packs. Keep dry and cool and protect from frost.
Disposal	Packs must be emptied completely.

* All figures have been determined at 23 °C and 50 % relative humidity

** The coverage rates depend on the roughness, the absorbency and the kind of substrate. To determine the object-specific coverage, we advise preparing a sample area.

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 07/09. 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.