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MC-Hardener 300

Impregnating improvement of cement-based surfaces.

PRODUCT DESCRIPTION:

- Mode of action: **MC-Hardener 300** penetrates into concrete surfaces and forms with cement components silicate reaction surface, which cause an obvious reduction of porosity.
- Simultaneously **MC-Hardener 300** is used for the curing of concrete on interior surfaces.

PRODUCT PROPERTIES:

- Liquid, ready to use impregnation.
- Hydrophobic, strengthening and dust binding impact.
- Increases abrasion resistance of cement based surfaces.
- Increases the pull off strength and the surface tensile strength of cement based surfaces.
- Increases frost-thaw-salt resistance of cement based surfaces.
- Certified according to EN 1504-2.

AREAS OF APPLICATION:

- Impregnation of alkaline, cement based surfaces, such as concrete and screed.
- Impregnation of cement based industrial floorings.
- Wet curing of indoor concrete and screed surfaces.
- Principle 1 and 5, procedure 1.2 and 2.

APPLICATION NOTE:

- **Substrate preparation:**
  - **MC-Hardener 300** can be applied on concrete and screed, as soon as the surface is trafficable.
  - When applying **MC-Hardener 300** on existing or already used concrete surfaces, please note the information sheet of "General Application Advice for MC-Estripox - substrate and substrate preparation".
  - It is not allowed, that oil containing substances, e.g. separating agents, after treatment agents and oils stay back on concrete surfaces.
  - After dedusting of the substrate the surface has to be pre-wetted. For this spraying pumps, e.g. MC-Spezialspritze, or hoses can be used. Avoid puddle formation!
  - The application of **MC-Hardener 300** can start after having matt damp surface.
- **Application:**
  - Apply **MC-Hardener 300** evenly (e.g. with MC-Spezialspritze spraying pump, short coat roller or directly poured out of the package), dosage from 100 to 200 g/m².
  - **MC-Hardener 300** is easily worked into the surfaces, crosswise brushing, e.g. hard brush. The consumption and penetration ability of **MC-Hardener 300** depends on the porosity of the substrate. If necessary apply in several working steps.
  - After 20 - 45 minutes a soapy, slippery surface appears, the silicate reaction begins. During this reaction time the surface has to be kept wet, e.g. fogging with water without washing up the material. If **MC-Hardener 300** is used as after-wet-treatment, the surface has to be kept wet for minimum 24 hours.
- **Removal:** To remove the soapy compound apply once more water on the surface, screed the surplus material with a rubber lip or wash it up with a water hose. Repeat this procedure until concrete has a matt finish and no slippery sites exists. If necessary take other actions of after treatments.

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- **Application on bond screeds:** If **MC-Hardener 300** is used to improve the tensile strength of bond screeds, we recommend to rough up the surface (e.g. shot peening) and to wait minimum one week before revision. MC-Estripox protect is used as bonding layer.

TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Density	g/cm³	approx 1.15	
Consumption	g/m²	100 - 200	depending on condition of substrate
Penetration depth	Mm	≥ 5	EN 1504-2
Wear resistance (increase)	%	> 30	EN ISO 5470-1
Impact strength	Nm	≥ 10	grade II per EN ISO 6272-1
Capillary water absorption	$Kg/m^2h^{0.5}$	< 0.1	EN 1062-3
Exposure time	Minutes	60	Minimum
Application conditions	°C	≥ 5 ≥ 30	air, substrate and material temperatures

**All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.*
In order to determine specifications under specific conditions, preliminary conformance tests should be performed under actual construction conditions.

PRODUCT CHARACTERISTICS:

Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
Color shade	Transparent.
Packaging	30 kg canister(s) or 200 kg drum.
Self-monitoring	EN ISO 9001
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.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

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