

## 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 ADVICE

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

**Substrate preparation:** MC-Estrifan SI can be applied on concrete and screed, as soon as the surface is trafficable. When applying MC-Estrifan SI 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.

**Pre-wetting:** 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-Estrifan SI can start after having matt damp surface.

**Application:** Apply MC-Estrifan SI evenly (e.g. with MC-Spezialspritze spraying pump, short coat roller or directly poured out of the package), minimum 200 g/m<sup>2</sup>.

MC-Estrifan SI is easily worked into the surfaces, crosswise brushing, e.g. hard brush. The consumption and penetration ability of MC-Estrifan SI 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-Estrifan SI 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.

**Application on bond screeds:** If MC-Estrifan SI 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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	g/cm <sup>3</sup>	approx. 1.15	
Consumption	g/m <sup>2</sup>	> 200	depending on condition of substrate
Penetration depth	mm	≥ 5	EN 1504-2
Impact strength	Nm	≥ 10	grade II per EN ISO 6272-1
Capillary water absorption	kg/m <sup>2</sup> · h <sup>0.5</sup>	< 0.1	EN 1062-3
Exposure time	minutes	60	minimum
Application conditions	°C	≥ 5 ≥ 30	air, substrate and material temperatures
Wear resistance (increase)	%	> 30	EN ISO 5470-1

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

Delivery Form	30 kg canister(s) 200 kg drum
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.
Self-Monitoring	EN ISO 9001
Colour Shade	transparent

### 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. [2200006002]