

# MC-Estripox protect

(formerly MC-Estrifan HB)

Two-component epoxy resin coating



## PRODUCT PROPERTIES

- Two component epoxy resin
- Solvent free
- Coloured, approx. RAL 7032
- Good adhesion to mineral substrates
- Coating with high scuff resistance
- Registered with DGNB (Code: ZRLZHU)

## AREAS OF APPLICATION

- Bonding layer for cementitious substrates
- Bonding layer between old and fresh concrete
- Grouting of voids and cavities in screed
- Coating of cement screeds
- Damp-proofing for increase humidity (< 6 CM %)

## APPLICATION ADVICE

### Substrate Preparation

See data-sheet "General Application Advice for MC-Estrifan-substrate and substrate preparation" and the data sheet "General Application Advice for MC-Estrifan-epoxy resins" for the repair of disruptions, pores and cavities.

### Mixing

See data-sheet "General Application Advice for MC-Estrifan-epoxy resins".

### Application

When using MC-Estripox protect as a bonding layer, no further priming is necessary. The material is applied amply onto the load-bearing substrate, using a float. The layer must be completely closed. The application of the screed or concrete must be done fresh-in-fresh within the processing time of MC-Estripox protect. Only prepare as much surface as can be concreted fresh-in-fresh. For use on sloped or vertical surfaces it is possible to render MC-Estripox protect knife grade by adding approx. 3 - 5 weight-% MC-Stellmittel TX 19. If used as a screed coating, the substrate must be primed with MC-Estripoxpro. In most cases a scratch coat, consisting of MC-Estripox pro and oven-dried quartz sand with grain size 0.1 - 0.3 mm, is also necessary. Please observe the information on the technical data sheet for MC-Estripoxpro. Between 12 and 24 hours after the scratch coat has been applied, MC-Estripox protect is applied with a float, coating knife or rubber squeegee and aerated with a spiked roller. MC-Estripox protect can be loaded with oven-dried quartzsand at a mixing ratio of 1 : 0.5 parts-by-weight, and applied in layers of more than 1 mm. The freshly laid surfaces must be aerated crosswise with a spiked roller. These surfaces can be made skid-resistant by sanding in excess (approx. 5 - 6 kg per m<sup>2</sup>) with oven-dried quartzsand (grain size 0.2 - 0.7 mm). After curing the loose excess sand is removed. Afterwards it is possible to apply a top coat with MC-Estripox protect, using a lambskin roller crosswise.

### Further Information

Coverage, processing time and all technical properties depend very much on the temperatures and the object conditions. Please attend the information on the data-sheet "General Application Advice for MC-Estrifan-epoxy resins".

Chemical attacks and exposure to light might cause changes in colour, which usually do not impair the usability. Chemically and mechanically loaded areas are subject to usage-caused wear and tear. Regular inspections and continuous maintenance are recommended.

For the processing and handling of MC-Estripox protect please observe the advice on the packaging label and the safety data sheet!

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Wear resistance	g	1.12	H22 rollers/1000 cycles / 1 kg load per EN ISO 5470-1
Mixing ratio	mass fractions	3 : 1	base component : hardener component
Density	g/cm <sup>3</sup>	approx. 1.37	
Working time	minutes		
10 kg container		approx. 40	
1 kg container		approx. 45	
Compressive strength	N/mm <sup>2</sup>	56	Class II per EN ISO 12190
Application conditions	°C	≥ 8 ≤ 30	air and substrate temperatures
	%	≤ 85	rel. humidity
	K	> 3	above dew point
Impact strength	Nm	20	grade III per ISO 6272
Drying time	hours	approx. 12	accessible
	days	approx. 7	Fully resilient
Consumption	kg/m <sup>2</sup>		
As a bond coat		approx. 1 - 1.5	Substrate-dependent
Coating		approx. 1.4	

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

Binder Base	Epoxy resin
Equipment Cleaning Agent	MC-Reinigungsmittel U
Colour Shade	grey, approx. RAL 7032
Delivery Form	10 kg twin units 1 kg twin units (6x 1kg in a box)
Storage	Can be stored in cool (below 20°C) and dry conditions for 12 months in original unopened packs. Protect from frost.
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. [2100005737]