



MC-Screed Protect RM4

Sealing for cementitious screeds with high residual moisture
for adjustment of the moisture balance

Product properties

- One component polyurethane binder
- Good moisture barrier properties
- Quickly recoatable
- Short drying time
- Low VOC according to AgBB and GEV, EMICODE, class EC1 Plus
- Certified according to EN 1504-2, principles 2 and 8, procedures 2.2 and 8.2

Application fields

- Sealing of cementitious substrates with a residual moisture of $\leq 4.0\%$ (patent EP 0911306 B1)
- Suitable for cementitious screeds, dry mix and flowable
- Suitable for heated screeds
- Suitable for MC-Estrifan ECE 20 flow screed system

Application notes

Application area

MC-Screed Protect RM4 is used as a sealing for cementitious substrates with residual moisture content of max. 4.0 %.

Due to the blocking of capillary rising moisture the readiness for covering of the substrate can get achieved after a short period of time.

Substrate preparation

The residual moisture of the substrate has to be below 4.0 %. The pull-off strength of the substrate has to be at least 1.5 N/mm² average (lowest single value 1.0 N/mm²).

The substrate must be clean, dry, load-bearing and free of all loose particles, dust, oil and other separating substances. Existing coatings must be removed.

For more detailed information please see the data sheet "MC-Estrifan-substrate and substrate preparation".

Processing

MC-Screed Protect RM4 is poured onto the screed surface and is thinly spread using a lamb-skin roller. Puddle formation must be avoided. After drying of the first layer apply a second layer within 24 hours. Apply crosswise. For ideal adhesion of the following coverings we recommend to sprinkle the second layer surface with oven dried quartz sand 0.3 - 0.7 mm (min. 2 kg/m²) while wet. The excess of sand has to be removed after drying.

Further Information

All of the information given refers to normal climatic conditions of +23 °C and 50 % relative air humidity. Higher temperatures and higher air humidity accelerate, while lower temperatures and lower air humidity delay the drying.



Technical Data for MC-Screed Protect RM4

Characteristic	Unit	Value	Comment
Binder Basis			Polyurethane
Density	kg/dm ³	1.2	
Consumption	g/m ²	150 300	per layer, for application with lambskin roller Apply twice for moisture barrier purposes, second layer with sanding (quartz-sand 0.3 - 0.7 mm)
Drying time Recoatoble	min	60 - 90	At 23 °C and with 50 % relative humidity
Capillary water absorption and water permeability	kg/m ² x h ^{0.5}	< 0.1	DIN EN 1062-3
Water vapour permeability	m	8.39	class 2 according to DIN EN 7783-1 DIN EN 7783-2
Adhesion strength on wet concrete	N/mm ²	3.1	DIN EN 13578
pull-off test	N/mm ²	4.4	DIN EN 1542
Processing Conditions	°C	10 until 30	Air and substrate's temperature

Product Characteristics for MC-Screed Protect RM4

Colour	Amber
Consistency	liquid
Storage	Can be stored for at least 6 months below 40 °C in original closed packaging, as long as it is frost-free and protected from direct sunlight.
Form of Delivery	10 kg canister
Disposal	To protect our environment please empty the packs completely!

Safety advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets. GISCODE: PU40

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 11/16. 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.