

MC-Proof 501 flex

Flexible sealing slurry



PRODUCT PROPERTIES

- Two-component
- Resistant to alkali and frost
- Impermeable to water up to 1 bar (positive pressure)
- Flexible and crack-bridging
- Open to diffusion
- Excellent application properties
- Protection against corrosive substances

AREAS OF APPLICATION

- Exterior sealing of structural components in contact to the ground
- Composite sealing with ceramic coatings, both interior and exterior
- Waterproofing of concrete, lightweight concrete, aerated concrete
- Waterproofing of masonry and render of categories CS II, CS III and CS IV

APPLICATION ADVICE

Substrate preparation: Prior to application of the sealing slurry the substrate must be checked for load-bearing capacity and absence of frost. The substrate must be clean and free from all loose particles, dust, old coatings, slurries, bitumen and any other contaminants. Any sharp-edged unevenness must be removed. Unevenness ≤ 5 mm must be filled using a scratch- or levelling coat, e.g. MC-Proof 501 flex. This must not be considered as waterproofing layer. Unevenness ≥ 5 mm must be levelled out using a suitable mineral filling compound, e.g. Oxal SPM.

Mixing: The powder component is added to the prepared liquid component under constant stirring and mixed until a homogeneous and lump-free slurry is achieved. Slowly rotating mixers must be used for mixing. Mixing by hand and preparation of partial quantities or addition of water is not permitted. Mixing takes at least 2 minutes. Following a setting time of 2 minutes the material is stirred again.

Application: MC-Proof 501 flex is applied in at least two or more layers. The first layer is applied in excess and imperviously using a brush. Especially corners and crushed edges must be coated thoroughly. The second layer and any following layer may be applied using a brush or a float. The layer below must be hardened and bear sufficient load capacity, to not get damaged by application of the following layer. During application the material must be protected against pressurized water and direct sun exposure.

Curing: MC-Proof 501 flex must be protected from drying out too quickly due to high temperatures and against direct sun and wind exposure over the entire curing phase. In exterior areas the fresh sealing slurry must also be protected against rain and frost.

Note: WTA leaflet 4-6-05/D and the „Guideline for planning and execution of waterproofing with mineral sealing slurries“ and the leaflet „Details on execution of composite waterproofing with linings and coatings made of tiles and slabs for interior and exterior areas“ are to be observed.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	2 : 1	powder component : liquid
Working time	minutes	30	at 20° C
Application conditions	°C	≥ 5 ≤ 30	air, substrate and material temperatures
Consumption	kg/m ² /mm	1.6	
Layer thickness (wet layer thickness)	mm	2.5	ground moisture + non-accumulating seepage water (≥ 2.5 mm dry layer thickness)
		3.5	pressing water (≥ 3 mm dry layer thickness)
Fresh mortar bulk density	kg/dm ³	approx. 1.6	
Thermal resistance	°C	-20 - 70	
Overworking time	hours	approx. 4	

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

Storage	Can be stored in cool (below 0°C) and dry conditions for 12 months in original unopened packs. Protect from frost.
Packaging disposal	Make sure single-use containers are completely empty.
Delivery form	20 kg bag and 10 kg tube

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. [2300018639]