

MC-Proof 530

Multifunctional and flexible waterproofing and protective coating with permanent water resistance



PRODUCT PROPERTIES

- Two-component, polymer-modified protective coating and waterproofing
- Flexible and crack-bridging coating (class A3 & B3.1 acc. to EN 1062-7)
- Resistant to permanent water load, impermeable to water (positive and negative pressure)
- Open to water vapour diffusion, inhibits carbonation
- Resistant to frost-thaw and de-icing salts, chloride-proof
- Application by hand and wet-spray, curing-free
- Fast curing with visible colour control
- Certified in accordance with EN 1504 part 2

AREAS OF APPLICATION

- Surface protection system for water-exposed concrete structures
- Suitable for spillover basins, rain collection basins, static fire tanks, industrial water tanks, sprinkler tanks, cooling water pits, seawater structures
- Suitable for waterproofing in internal and external areas
- Suitable for horizontal, vertical and overhead areas in areas without mechanical loading.
- Certified according to EN 1504 part 2 for principle 1, 2 and 8, procedure 1.3, 2.3 and 8.3
- REACH-assessed exposure scenarios: long-term water contact, periodical inhalation, application

APPLICATION ADVICE

Substrate Preparation: See leaflet “General Application Advice Polymer Cement Mixtures”

Mixing: Please refer to the “Technical Data” table. Ensure that mixing is carried out mechanically using a rotary high-speed mixer for at least 3 minutes and until the mixture is lump-free. Please ask us for more assistance on the correct mixing head and equipment required.

Application: MC-Proof 530 is applied in two work-steps, using trowels, floats, rubber squeegees or by wet-spray method. For spray application use a spiral pump/ peristaltic pump with a variably adjustable discharge flow. Please ask for our assistance or consult the equipment planner leaflet.

Scratch Coat: During the first work-step a scratch coat is applied with a rubber squeegee. If such a coat is applied by spraying it must be worked into the substrate subsequently. Ensure that all pores and blow-holes are sealed after this work step.

Coating: During the second work step, the coating is hand-applied or sprayed onto the primer coating with a maximum layer thickness of 2 mm per pass. The subsequent second layer can be applied on the following day or after a waiting time of 12 hours. For floor-wall connections, internal and external corners, application of MC-FastTape between the two layers is advised.

Finishing: To achieve a smooth surface the coating can be smoothed and finished with a steel float immediately after application. The maximum waiting time between application and smoothing depends on local climatic conditions. When using the wet-spraying method, the final surface can be left in a spray finish or smoothed immediately after application with a steel float. MC-Proof 530 does not require additional curing, but ensure proper air circulation while coating enclosed areas.

Overview of Consumption:

Field of Application	Consumption (kg/m ²)	Dry layer thickness (mm)
Scratch Coat	0.6-0.8*	
Waterproofing	3.0	2.0
Protection coating for permanent water load	4.5	3.0

*depending on the roughness and evenness of substrate

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	20 : 10.5	powder component : liquid
Working time	minutes	60	at 10° C
		45	at 20 °C
		30	at 30 °C
Application conditions	°C	≥ 10 ≤ 30	air, material and substrate temperatures
Resistance to diffusion (against carbon dioxide CO ₂)	m	> 50	Equivalent air layer thickness
Resistance to diffusion (against water vapour H ₂ O)	m	< 50	Equivalent air layer thickness
Layer thickness	mm	1.5	minimum layer thickness per pass/operation
		2	maximum layer thickness per pass/operation
		4	recommended for direct water contact
Fresh mortar bulk density	kg/dm ³	1.5	
Waiting times	days	≥ 7	exposure to water
Crack-bridging class (dynamic)		B3.1	at -20°C
Crack-bridging class (static)		A3	
Overworking time	hours	~ 1 - 2	scratch coat / 1st layer
		12	1st layer / 2nd layer

All technical values are laboratory results determined at 21°C ±2°C and 65% relative humidity.

Colour	dark grey
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 12 months.
Equipment cleaning agent	All tools and equipment can be cleaned during the application period using water. Material that has already reacted or cured can only be removed by mechanical means.
Packaging disposal	Make sure single-use containers are completely empty.
Delivery form	MC-Proof 530 Powder: 20 kg sack MC-Proof 530 Liquid: 10.5 kg bucket

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. [2400021928]