

MC-Proof one

(formerly Expert Proof one)



One-component, fast hardening, highly flexible and bitumen-free waterproofing

PRODUCT PROPERTIES

- Flexible polymer thick coating with ETA assessment (ETA-18/0325)
- Fast drying including colour control
- One-component, bitumen-free, solvent-free
- High UV- and frost-resistance, resistant to ageing
- Crack-bridging, due to high flexibility
- Trowel and spreadable consistency (e.g. wide brush), sprayable (spiral pump)
- Can be painted and plastered over
- Certified according EN 14891 and tested according to EN 15814
- Impervious to radon

AREAS OF APPLICATION

- Sealing of basement walls, foundations, base plates, balconies, terraces
- Refurbishment and reengineering of old waterproofing and roof sealing
- Waterproofing of structural components in contact with ground
- Plinth sealing in splash water areas

APPLICATION ADVICE

Substrate preparation: MC-Proof one can be applied to all mineral substrates, load-bearing bituminous old water-proofing, metals and plastics. The substrate has to be able to bear loads, clean, frost-free, dry, free from anti-adhesive substances (e.g. dust, release agent, cement), and free from surface pockets, gaping cracks or ridges.

Before applying a scratch coat, mineral substrates have to be pre-wetted. Recesses > 5 mm have to be filled and closed with a suitable barrier mortar (Nafuquick). In the area of floor to wall connections a concave coving with the mineral mortar Nafuquick has to be created. Additionally, on mineral substrates a scratch coat or a first thin layer has to be applied utilising a wide brush. On top of the surface-dry scratch coating, a first sealing layer is applied.

Application: MC-Proof one is applied evenly and pore-free to the substrate in two layers using a trowel, wide brush or smoothing trowel. The second layer can be applied fresh in fresh on the first layer. The layer thickness depends on the potential water loading. Additionally, application with spiral or peristaltic pump is possible. For details, please ask our application technicians.

Curing and Protection: Protect MC-Proof one from rain until it has developed its rain resistance. Water penetration and frost exposure must be prevented until the coating has dried out completely. An area-wide colour change from dark white to light grey is a first sign for drying. Besides, drying should be destructively tested on a reference sample. Refilling of the excavation pit is only possible after complete drying.

Further information: The application of MC-Proof one should not take place on sunny surfaces. Interruptions of work require MC-Proof one to be drawn out to zero. Interruptions in the area of corners and edges are not allowed. Continuous work has to be started overlapping (10 - 20 cm).

In areas which are exposed to high UV radiation, the materials' colour tone could change. The mechanical properties are not affected.

DIN 18531 and DIN 18533-18535 as well as the guideline "Waterproofing with mineral sealing slurries" of "Deutsche Bauchemie" should be considered.

When applied in confined spaces the supply of fresh air is required.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	approx. 1.1	
Working time	minutes	approx. 90	at 23°C and 50% rel. humidity
Application conditions	°C	≥ 5 ≤ 35	air and substrate temperatures
Consumption	kg/m ²		
		approx. 2.9	2.7 wet / 2.0 dry (W4-E)
		approx. 4.4	3.3 wet / 3.0 dry (W1-E + W3-E)
		approx. 5.8	5.4 wet / 4.0 dry (W2.1-E)
Drying time	hours	approx. 24	depending on temperature, humidity, substrate and wet layer thickness, drying time may be longer or shorter
Rain resistant after	hours	approx. 6	at 23°C and 50% rel. humidity
Maximum pressure load	N/mm ²	3	

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

delivery form	30 kg hobbock 1 pallet (12 hobbocks @ 30 kg)
Storage	Can be stored in original sealed packages at temperatures between 5°C and 30°C in dry conditions for at least 12 months.
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. [2100004693]