



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

Application Areas

- 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 Notes

Substrate preparation

MC-Proof one can be applied to all mineral substrates, load-bearing bituminous old waterproofing, 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 Data for MC-Proof one

Characteristic	Unit	Value	Comments
Colour			dark white (fresh), light grey (hardened)
Density	kg/dm ³	1.1	mixed material
Processing time	minutes	approx. 90	at 23 °C and 50 % relative humidity
Processing temperature	°C	≥ +5 - ≤ +35	air- and substrate temperature
Drying	hours	24	at 23 °C and 50 % relative humidity Depending on temperature, humidity, substrate and wet layer thickness, the drying time is either shortened or extended.
Rain-resistant after	hours	approx. 6	at 23 °C and 50 % relative humidity
Compressive resistance	N/mm ²	3	
Consumption			wet layer thickness dry layer thickness
	kg/m ²	2.9	2.7 mm 2 mm (soil moisture)
	kg/m ²	3.6	3.3 mm 2.5 mm (pressing water)
	kg/m ²	3.6	3.3 mm 2.5 mm (waterproof concrete)

Product Characteristics for MC-Proof one

Form of delivery	30 kg buckets 1 pallet (12 buckets of 30 kg each)
Storage	Can be stored for at least 12 months in closed packs under frost-free and dry conditions.
Disposal	To protect our environment please empty the packs completely!

Tested according to EN 15814 for waterproofing of structural components in contact with the ground.

Certified as "Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives" after EN 14891

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

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 01/20. 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.