

MC-Proof DF 10 is a one-component, rapidly setting dispersion based waterproofing of structural elements that are in contact with the ground in new buildings and for the repair of existing waterproofing. MC-Proof DF 10 is certificated according to the European technical approval (ETA-18/0327) as a flexible polymer thick coating. MC-Proof DF 10 is tested according to EN 14891.

PRODUCT PROPERTIES

- Fast waterproofing of building structures
- With ETA certification
- Ready for use and without priming
- Highly flexible and crack-bridging
- Easy taking out of partial material quantities
- Can be painted and plastered over or covered with tiles
- With visible curing control
- High UV, frost and aging resistance
- Free from bitumen and solvents
- Tested radon tightness according to ISO 11665
- Tested as a composite sealant below tile coverings

AREAS OF APPLICATION

- Waterproofing of basement walls, floor slabs, foundations, balconies and terraces
- Sealing of plinth walls
- Waterproofing below the tile coverings
- Repair of existing waterproofing on structural elements
- Partial repair of roof sealants
- Intermediate waterproofing under screeds
- Horizontal waterproofing in and underneath walls
- Waterproofing of water features in landscape gardening

SUITABLE SUBSTRATES

For the use of MC-Proof DF 10 as waterproofing of structural elements of:

- Mineral substrates
- Old, stable bituminous waterproofings
- Many standard plastics used in construction (pipes/ penetrations)
- Metal substrates
- Timber substrates
- Gypsum based substrate
- MC building boards
- Old tiling

SUBSTRATE PREPARATION

The substrate must be in the following conditions:

- Stable, clean and frost-free
- Free from grease, paint, cement laitance, separating agents, sinter layers, honeycombs, protruding mortar residues and loose particles
- Cut off protruding horizontal waterproofing so it sits flush

Mineral substrates must be slightly damp or pre-wetted prior to the application of the first waterproofing layer. Non-absorbent substrates (e.g. bitumen, metal, timber or plastic) and gypsum based substrates must be dry. To ensure an optimal contact to each substrate and to close fine air voids in the surface of mineral building materials a scratch coat has to be done prior to the application of the first waterproofing layer.

Levelling of profiling, large-scaled defects and unevenness

SUBSTRATE PREPARATION

- Mix MC-Proof DF 10 with 30 % of dried quartz sand of grain size 0.5 – 1.2 mm, apply the necessary layer thickness and smooth immediately

Please also note:

- Mounting parts made from PVC, steel and gunmetal must be cleaned thoroughly, removing any grease and must be roughened up (keyed)
- Lightly sanding substrates must be primed with D 20
- Closing of defects and open butt joints
 - < 5 mm width → with MC-Proof DF 10
 - ≥ 5 mm width → with Nafufil KM or MC-RockMortar L

APPLICATION ADVICE

Use of MC-Proof DF 10 as waterproofing of structural elements

MC-Proof DF 10 is applied using a paste brush, smoothing trowel or spray device onto the dried scratch coat. The application of MC-Proof DF 10 has to be done in at least two layers. In case of ground moisture or non-standing seepage water the second layer can be applied fresh in fresh onto the first layer, in case of pressing water the first layer has to be cured so far that it cannot be damaged by the application of the second layer. It is not necessary to work a glass fibre mesh into a layer of MC-Proof DF 10. To cover joints and to produce connections, internal corners, transitions and penetrations, fix MC-FastTape sealing tape and accessories with MC-Proof DF 10. The edges of the sealing tape have to be worked over with MC-Proof DF 10 in the course of the waterproofing works. The edges should be smoothed over with a paint brush finally. In areas which are exposed to high humidity (such as for instance the wall/floor slab connection area in excavations) internal corners are formed as a concave moulding by using the sealing mortars Nafufil KM or MC-RockMortar L. Prior to application of the first waterproofing layer of MC-Proof DF 10 the sealing mortar must have fully cured. Curing is complete when the waterproofing is no longer the colour it was when fresh (light green), but has turned dark green across the entire area. MC-Proof DF 10 can also be applied by using the spray method. We recommend contacting the experts from our technical department first.

Use of MC-Proof DF 10 as Waterproofing of butt and construction joints in concrete structures with a high resistance against water penetration (water-impermeable concrete)

Here MC-Proof DF 10 must be applied across the entire joint width of ≥ 30 cm (≥ 15 on either side of the joint) in at least two layers (integrate glass fibre fabric into the first layer). The subsequent tile fitting can be performed with one of the MC tile adhesives.

Joints, internal and external corners as well as penetrations are covered by including MC-FastTape sealing tape and accessories in the first layer of the sealant material and worked over with the second layer.

CONSUMPTION

application area	consumption (kg/m ²)	△ wet layer thickness (mm)	△ dry layer thickness (mm)
scratch coat	0.5- 1.2*	-	-
waterproofing of structural elements			
waterproofing in case of splash water and ground moisture at plinth walls according to ETA-18/0326	2.9	2.7	2.0
horizontal waterproofing in and under walls according to ETA-18/0326	2.9	2.7	2.0

CONSUMPTION

waterproofing in case of ground damp and non-standing seepage water according to ETA-18/0326	2.9	2.7	2.0
waterproofing in case of pressing water (moderate exposure) according to ETA-18/0326	3.6	3.3	2.5
waterproofing in case of pressing water (high exposure) according to ETA-18/0326	5.8	5.4	4.0
waterproofing of joints in water-impermeable concrete structures	5.8	5.4	4.0
waterproofing in case of pressing water from the inside	3.6	3.3	2.5
composite sealant			
composite sealant for low water exposure in interior rooms (e. g. private bath rooms)	0.8	0.7	0.5
composite sealant according to BS EN 14891	2.9	2.7	2.0

* depending on the roughness and the planarity of the substrate

IMPORTANT ADVISORIES

When waterproofing building structures in contact with the ground all valid technical standards and guidelines must be observed in their current versions. To check the adhesion on smooth and metallic substrates, we recommend carrying out a site-specific trial application in advance. MC-Proof DF 10 should not be applied onto areas getting plenty of sunshine. When work is interrupted during application, extend MC-Proof DF 10 down to a feather finish. Work is continued with an overlap. Interruptions in the area of corners and edges are not permissible. In case of punctual peeling off from the substrate, the functionality of the sealing is conserved within the area due to the high inner material stability. The filling of the building pit may not occur until MC-Proof DF 10 has completely cured.

For the protection of the waterproofing, we recommend MC Protection and drainage membrane.

MC-Proof DF 10 does not serve as a vapour barrier.

MC-Proof DF 10 is suitable as composite.

Waterproofing according to EN 14891 used under tiles in connection with all MC tile adhesives.

For durable sealing against negative water pressure our sealing slurries, MC-Proof 101 HS is suitable.

Prior to the application of plasters onto the fully dried Waterproofing of MC-Proof DF 10 we recommend applying a mineral contact layer made of MC-RockMortar L in horizontal direction by using a toothed trowel. In case of waterproofing swimming pools, please contact our technical department.

You can view or download the safety datasheet at www.mc-bauchemie.com.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Layer thickness (wet)	mm		
Unextended		≤ 5	
With sand filler		≤ 20	
Resilient after (mechanically)	hours	approx. 24	
Adhesive bonding of drainage and insulation boards after	hours	approx. 8	
Compressive strength	N/mm ²	approx. 3	
Consistency			can be applied by trowel, painted on or sprayed on
Density	kg/dm ³	~ 1.1	
Application conditions	°C	> 5 < 35	
Rain resistant after	hours	approx. 6	
Sd-value	m	approx. 28	at 2.0 mm dry layer thickness
		approx. 35	at 2.5 mm dry layer thickness
Working time	hours	> 1.5	
			All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.
Base		polymer dispersion, additives	
Colour		green	
Delivery form		2.5 kg 10 kg 30 kg	
Storage		Can be stored in cool and dry conditions for at least 12 months in original unopened packs. Protect from frost.	
Cleaning agent		when fresh: water, when fully cured: mechanical	

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. [2400024626]