



BE SURE. BUILD SURE.

MC-Proof DF 10 (Previously known as Botament RD 1)

Fast, multi-functional reactive sealant

Product Properties

- Fast waterproofing of building structures
- With ETA certification
- Ready 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 Free from bitumen and solvents, frost and aging resistance
- Free from bitumen and solvents
- Tested as a composite sealant below tile coverings
- Tested according to BS EN 14891

Area of Application

- waterproofing of basement walls, floor slabs, foundations, balconies and terraces
- sealing of plinth walls
- composite sealant below tile coverings
- repair of existing waterproofing on structural elements
- partial repair of roof sealants
- intermediate sealant under screeds
- horizontal waterproofing in and underneath walls
- waterproofing of water features in landscape gardening
- repair works

Application

Use of MC-Proof DF 10 Universal 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, we recommend working MC Fast Tape sealing tape into the first layer of the waterproofing using the suitable accessories and then to cover these with the second layer which should be smoothed over with a paint brush. MC-Proof DF 10 has to be run at least 10 cm deep onto the facing side of the foundation or the floor slab (at least 15 cm in case of water-impermeable concrete).

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

BOTAMENT□ M 36 Speed Multifunctional rapid cement mortar or BOTAMENT□ M 35 Multimortar. 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. If MC-Proof DF 10 is to be applied 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 (waterimpermeable 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 BOTAMENT GS 98 into the first layer).



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Application

Use of MC-Proof DF 10 as composite sealant

The subsequent tile fitting can be performed with one of the tile adhesives. Joints, internal and external corners as well as penetrations are covered by including MC Fast Tape System Sealing Tape and accessories in the first layer of the sealant material and worked over with the second layer.

Suitable substrates

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

- mineral substrates
- old, stable bituminous waterproofings
- many standard plastics used in construction (pipes/ penetrations)
- metal substrates
- timber substrates

For the use of MC-Proof DF 10 as composite sealant

- mineral substrates
- metal substrates
- timber substrates
- gypsum based substrates
- MC BP building boards
- old tiling

Substrate preparation

The substrate must be in the following condition:

- 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 profilings, large-scaled defects and unevennesses

- mix BO 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

Note:

- mounting parts made from PVC, steel and gunmetal must be cleaned thoroughly, removing any grease and must be roughened up (keyed)
- ightly sanding substrates must be primed with BOTAMENT D 12 pre-treat deep silification
- close off defects and open butt joints < 5 mm width → with MC-Proof DF 10 ≥ 5 mm width → with BOTAMENT M 36 Speed or M 35 Multi-mortar

Important tips

When waterproofing building structures in contact with the ground all valid technical standards and guidelines must be observed in their current versions. 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 BOTAMENT DS 993 drainage and protection board. MC-Proof DF 10 does not serve as a vapour barrier.

MC-Proof DF 10 is suitable as composite sealant according to BS EN 14891 used under tiles in connection with all BOTAMENT tile adhesives. For durable sealings against negative water pressure our sealing slurries BOTAMENT® M 34 und BOTAMENT® MS 30 are suitable. Prior to the application of plasters onto the fully dried waterproofing of MC-Proof DF 10 we recommend to apply a mineral contact layer made of BOTAMENT® M 35 Multi-mortar in horizontal direction by using a toothed trowel. In case of waterproofing swimming pools please contact our technical department.

Material base

Polymer dispersion, additives.

Cleaning Agent

With water when fresh. By mechanical means when fully cured



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Technical Data for MC-Proof DF 10

Characteristic	Unit	Value	Comments
Density	kg/dm ³	~1.1	
Dry Layer Thickness		~ 26 m ~ 35 m	2.0mm 2.5mm
Pressure Load-bearing Capacity	N/mm ²	3	
Working Time	hours	> 1.5	
Max. Layer Thickness (wet)	mm	5 20	Non-stretched Stretched with sand
Rain-resistant	hours	~3	after
Bonding of Drainage and Insulation Boards	hours	~8	after
Consumption	kg/ m ² / mm	~1.4	
Ready to receive mechanical loads	hours	~24	after
Consistency			Applied by trowel, painted on or sprayed on
Application and Substrate Temperature	°C	+5 to +35	

All times stated refer to the standard atmosphere of + 23 °C and 50 % relative humidity. Higher temperatures and lower humidity accelerate, while lower temperatures and higher humidity delay curing

Consumption

<i>application area</i>	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-18/0327	2.9	2.7	2.0
horizontal waterproofing in and under walls according to ETA-18/0327	2.9	2.7	2.0
waterproofing in case of ground damp and non-standing seepage water according to ETA-18/0327	2.9	2.7	2.0
waterproofing in case of pressing water (moderate exposure) according to ETA-18/0327	3.6	3.3	2.5
waterproofing in case of pressing water (high exposure) according to ETA-18/0327	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



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Product Characteristics for MC-Proof DF 10

Packaging	2.5 kg / 10 kg / 30 kg 350 g cartridge (12 pieces / box)
Colour	Green
Storage	Keep frost free, cool and dry.
Shelf Life	12 months in sealed original container.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety information sheets.

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 02/22. 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.