MC-Proof 800 Flex (Previously known as Botament RD 2)

Fast, multi-functional reactive sealant

Product Properties

- Fast waterproofing of building structures
- With ETA certification
- No priming necessary
- Highly flexible and crack-bridging
- Stockable down to - 5 °C
- Impervious even under negative water pressure (during construction phase)
- Can be painted and plastered over or covered with tiles
- High UV, frost and aging resistance
- With visible curing control
- Tested imperviousness against radon according to ISO 11665
- Tested as composite sealant according to BS EN 14891

Area of Application

- waterproofing of basement walls, floor slabs, foundations, balconies and terraces
- sealing of plinth walls
- 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
- sealing of water containers
- fixing of protection and insulation boards

Application

Application

Add component B to component A and mix both together with a slowly rotating mixer for at least 2 minutes. don't mix material again that has started to set

MC-Proof 800 Flex is applied using a paste brush, smoothing trowel or spray device onto the dried scratch coat. The application of MC-Proof 800 Flex has to be done in at least two layers. In case of 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 800 Flex. 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.

For the quick and safe connection of the waterproofing made of MC-Proof 800 Flex to door and window frames as well as for the transition zone between floor slab and rising walls which are constructed of timber materials we recommend to use the sealing tape. MC-Proof 800 Flex 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).

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. In addition to this visible control, we generally recommend carrying out a reference sample which is to be kept on the ground of the construction pit. The mixing ratio specified by the factory must be strictly adhered to. If MC-Proof 800 Flex is to be applied using the spray method, we recommend contacting the experts from our technical department first.

Application

MC-Proof 800 Flex is a rapidly setting, bitumenfree reactive sealant for the waterproofing of structural elements that are in contact with the ground in new buildings and for the repair of existing waterproofing. MC-Proof 800 Flex is certificated according to the European technical approval (ETA-18/0326) as a flexible polymer thick coating. MC-Proof 800 Flex is tested according to BS EN 14891.

Use of MC-Proof 800 Flex as waterproofing of butt and construction joints in concrete structures with a high resistance against water penetration (waterimpermeable concrete) Here MC-Proof 800 Flex must be applied across the entire joint width of ≥ 30 cm (≥ 15 on either side of the joint) in at least two layers

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 800 Flex should not be applied onto areas getting plenty of sunshine. When work is interrupted during application, extend MC-Proof 800 Flex 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 800 Flex has completely cured

For the protection of the waterproofing we recommend BOTAMENT DS 993 drainage and protection board. MC-Proof 800 Flex should not be applied directly onto non-ferrous metals MC-Proof 800 Flex does not serve as a vapour barrier. MC-Proof 800 Flex 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 800 Flex 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

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

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 MC-Proof 800 Flex 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)
- lightly 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 800 Flex ≥ 5 mm width → with BOTAMENT M 36 Speed or M 35 Multi-mortar

Material base
Polymer dispersion, special cement, additives.

Cleaning Agent
With water when fresh. By mechanical means when fully cured

Consumption

application area	consumption (kg/m²)	≙ 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	2.7	2.3	2.0
horizontal waterproofing in and under walls according to ETA-18/0326	2.7	2.3	2.0
waterproofing in case of ground damp and non-standing seepage water according to ETA-18/0326	2.7	2.3	2.0
waterproofing in case of pressing water (moderate exposure) according to ETA-18/0326	3.3	2.8	2.5
waterproofing in case of pressing water (high exposure) according to ETA-18/0326	5.4	4.6	4.0
waterproofing of joints in water-impermeable concrete structures	5.4	4.6	4.0
waterproofing in case of pressing water from the inside	3.3	2.8	2.5
setting adhesive for insulation boards	1.2	-	-
composite sealant			
composite sealant according to BS EN 14891	2.7	2.3	2.0

* Depending on the roughness and the planarity of the substrate

Technical Data for MC-Proof 800 Flex

Characteristic	Unit	Value	Comments
Density	kg/dm³	~1.18	
Dry Layer Thickness		~ 2 m ~ 2 m	2.0mm 2.5mm
Presure Load-bearing Capacity	N/mm²	38	
Mixing Ratio		1 : 1	
Working Time	minutes	~45	
Max. Layer Thickness (wet)	mm	20	
Rain-resistant	hours	~3	after
Bonding of Drainage and Insulation Boards	hours	~4	after
Ready to Recaive Mechanical Loads	hours	~24	after
Consistency			Applied by trowel, painted on or sparayed on
Application and Substrate Temperature	°C	+5 to +30	

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

Product Characteristics for MC-Proof 800 Flex	
Packaging	8 kg set (Part A – 4 kg liquid, Part B – 4 kg powder) 20 kg set (Part A – 10 kg liquid, Part B – 10 kg powder)
Colour	Green
Storage	Keep frost free and cool.
Shelf Life	**12 months** in sealed orinigal container. Keep cool (down to -5°C)

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 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.

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