



BE SURE. BUILD SURE.

MC-Proof 700 Flex (Previously known as Botament MD 28)

Special Purpose Waterproofing

Product Properties

- 2-component cementitious system
- especially for swimming pools
- crack-bridging
- open to water vapour diffusion
- prevent carbonation and efflorescence
- certified for potable drinking water
- in accordance to EN standards

Area of Application

- MC-Proof 700 Flex is a flexible, seamless waterproofing compound in combination with tile covering for strained areas like swimming pools, pool decks, balconies, terraces, laboratories, hotel and hospital kitchens as well as generally wet areas such as toilets, bathrooms, etc. It is also suitable as waterproofing for tile-on-tile refurbishment.

Application

Application:

The application area should be shaded and protected from strong wind for at least 6 hours. The working time of the mixture is approx. 45 minutes. MC-Proof 700 Flex can be applied by trowel, brush or by spraying device. The application must be in two layers crosswise. The first layer must be applied as a scratch coat to achieve good adhesion onto the substrate. The applied area must be protected from rain for 3 hours.

At corner areas and working joint apply the joint tape SB 78 by embedding it into the first layer while still wet.

Drying time:

Depending on the temperature, humidity and ventilation on site the drying time of the first layer is approx. 6 hours. The second layer requires a drying period of at least 24 hours prior to tiling. After material has dried completely the tiles can be installed directly onto MC-Proof 700 Flex by using the flexible power adhesive M 23 HP

The drying times are approximate and will be affected by ambient conditions. High temperature and low humidity quicken the drying process whereas low temperature and high humidity retards the drying process

Substrate Preparation

The surface must be dry at the time of application. For all absorbent substrates (cement render, screed, concrete, brickwork, etc.) the usage of primer D 11 prior to application of MC-Proof 700 Flex is mandatory. The primer reduces the absorbency, reinforces the substrate and optimizes adhesion.

Mixing

MC-Proof 700 Flex is supplied in two components

(25 kg powder, 10 kg liquid) at the right mixing ratio. To maintain the correct ratio always mix the entire containers to avoid changes in material properties. Add the powder to the liquid while mixing to achieve a lump-free mix. Use a slow speed drill mixer (400 – 500 rpm) and mix for a minimum of 3 minutes to produce a homogeneous consistency. After a maturity time of 5 minutes mix the material again for 1 minute to attain long workability. Material which is already setting must not be mixed again or diluted as this will affect the final properties.

Properties:

MC-Proof 700 Flex is a two-component, crack-bridging, cementitious waterproofing compound. It meets the requirements of stress class A1, A2, B in accordance to German DIBt as well as for classes 0, A01, A02, B0 in line with the German ZDB (Building Authorities). MC-Proof 700 Flex attains excellent adhesion strength onto mineral substrates as well as in combination with the tile adhesive M 23 HP.

MC-Proof 700 Flex is the waterproofing for the Swimming Pool System.

Suitable Substrates:

MC-Proof 700 Flex adheres to almost all kinds of mineral substrates such as concrete, render, screed, brickwork, plaster boards, light-weight blocks, etc. In addition it provides bonding onto existing tile layers for refurbishment purpose when applied as scratch coat

Substrate Requirement:

The substrate must be clean, frost-free, solid, stable, free of any loose particles like dust and free of grease, oil, paint, cement laitance, tar, bitumen or release agents which might affect the adhesion. Crack-lines need to be filled with epoxy BOTACEM®

Application

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Generally the substrate has to be levelled and smoothed by plaster and screed prior to waterproofing. Porous and cavity-rich substrates require a scratch/filling-coat for levelling purpose with M 23 HP prior to application of waterproofing.

Material which is already setting must not be mixed again or diluted as this will affect the final properties.

Application Sequence:



Priming The Substrate

Use a brush or roller to apply primer D 11 to all absorbent mineral substrates. Primer must be dried completely before applying the waterproofing.



Apply Joint Tape In Corners

Use joint tape MC-Proof 700 Flex in corner areas or apply angle fillet to avoid sharp corner. The joint tape is embedded firmly into the first layer of MC-Proof 700 Flex while still fresh.



Apply Waterproofing

Apply MC-Proof 700 Flex in two layers crosswise using a trowel.

General Remarks:

Protect MC-Proof 700 Flex against moisture until the material is completely dry.

Avoid heavy mechanical stress that may damage the waterproofing.

The datasheet of products used in conjunction with MC-Proof 700 Flex must be followed.

All technical data stated in this datasheet are based on test under laboratory conditions. Actually achieved data may vary due to ambient and site conditions.

The Material Safety Data Sheet is available on request.

Cleaning:

With water while material is still wet. Mechanical or solvents when material has dried

Material base:

Special-Cement-Polymer combination



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Technical Data for MC-Proof 700 Flex

Characteristic	Unit	Value	Comments
Colour			Grey
Solvent			None
pH-Value		10	
Wet Density	kg/lit	~1.6	
Mixing ratio		2.5 : 1	Comp. A : B
Consumption	kg/m ²	~1.6 ~3.2	Per layer Two layers
Potlife	min	~ 45	at 25°C
Fresh layer thickness	mm	Max 2 Max 4	Per layer Total layer thickness
Application conditions	°C	+8 to +30	max. 80% r.h.
Drying Time of first layer	hours	~6	
Drying Time of second layer prior to Fixing of tiles	hour	~24	

Product Characteristics for MC-Proof 700 Flex

Packaging	35 kg (25 kg powder; 10 kg liquid)
Storage	Keep cool and dry.
Shelf Life	12 months if kept in original, unopened and undamaged sealed packaging

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 08/23. 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.