



MB 1K rapid

Single-component, multi-functional building waterproofing



Availability			
Quantity per pallet	45	44	18
Size / Quantity	5 kg	10 kg	25 kg
Type of container	Plastic bucket	Plastic bucket	Plastic bucket
Container code	05	10	25
Art. no.			
0851	■	■	■
Min. order quantity: 45 x 5 kg (pallet)			

Application rate

Min. 1.3 kg/m²/mm dry layer thickness



Layer thickness and application rate for interior and exterior use: see application rate table under Application Examples.

Apply to a large enough trial area to determine the precise amount required.

Range of use



- Waterproofing in new buildings
- Can be applied > 3 m in the ground
- Connection to water-impermeable concrete structures
- Cross-sectional waterproofing in and under walls
- Wall base and render waterproofing
- Subsequent exterior waterproofing in existing buildings
- Bonding layer on old bitumen coatings

Property profile



- Can be applied directly from the container without mixing
- Fast, crosslinker-assisted complete drying
- Rapid bond adhesion, even on non-mineral substrates
- Very low emissions (GEV-EMICODE EC 1^{PLUS})
- Radon-tight (verified through testing)
- Highly flexible, elastic and crack-bridging
- Water pressure tight
- Can be plastered and painted over
- Can be applied as a slurry, with a brush or trowel, or by spraying
- Freeze/thaw-resistant

Characteristic data of the product

Base	Polymer binder, additives, special fillers
Crack-bridging	≥ 3 mm (at a dry layer thickness ≥ 3 mm)
Layer thickness	1.3 mm wet layer thickness yields approx. 1 mm dry layer thickness
Cross-slit pressure tests	Passed, including without reinforcement fabric
Water vapour diffusion resistance coefficient μ	9680
Drying time	Approx. 8 h at 2.5 mm wet layer thickness (20 °C/65% RH)
Ready to be covered	After approx. 72 h after application of the last layer
Consistency	Paste-like
Density	Approx. 1.05 kg/dm ³

The values stated represent typical characteristic data of the product and are not to be understood as binding product specifications.

Certificates

- > **Emicode EC 1 PLUS**
- > **Classification of Fire Behaviour acc EN-13501 1-K-2302-834-22**



- EPD-Declaration
- EPD-Declaration-Remmers
- EPD Dispersion based group
- Test certificate construction joints P-1203-971-23
- Test certificate sealing slurry P-1203-997-23
- Test certificate thick coating P-1203-970-23
- GEV licence Emicode EC1 Plus
- General building inspectorate test certificate_P-1203/970/23_PG-FPD
- General building inspectorate test certificate_P-1203/971/23_PG-FBB Part 1
- General building inspectorate test certificate_P-1203/997/23_PG-MDS
- Radon tightness_Dr. Kemski_test report 2023072101e
- Adhesive tensile strength according to EN 13687_test report 1203/959/23
- Fire behaviour classification n. DIN EN 13501-1_K-2302-834-22_MPA

Additional information

- Sustainability Data Sheet
- EPD declaration (Remmers)
- EPD-DBC-20220146-IBF1-EN

Possible system products

- Tape F (4822)
- MB ADD S (3079)
- WP DS Levell (0426)
- WP DKS rapid ^[basic] (0423)
- VM Fill (0517)
- VM Fill rapid (0519)
- FL fix (2817)
- Kiesol MB (3008)
- MB Fix 2K (0855)
- Color PA (6500)
- DS Protect (0823)
- Tex 4.8/100 (4183)

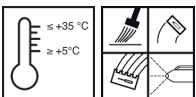
Preparation

- **Substrate requirements**
The substrate must be clean, dry, flat and capable of bearing a load, and free of dust, oil, grease and release agents.
Roughen non-mineral and pore-free substrates.
Absorbent mineral substrates, not self-compacting concrete (SCC), may be slightly damp.
- **Substrate preparation**
Remove projecting seams and mortar remains.
Break off or chamfer corners and edges.
Produce the sealing cove with a suitable mortar.
Seal off indentations > 5 mm using a suitable filling knife.
Roughen the surface of plastic pipes with sandpaper; clean and, if necessary, sand metal pipes.
If necessary, provide damp proofing.
Prime absorbent mineral substrates with Kiesol MB.
Create a scratch coat using the product as a contact layer and in order to prevent blisters.

Production of the mixture

- **Mixing**
No mixing necessary, material is ready to use, stirring possible if required.

Directions



- **Conditions for use**
Temperature of the material, air and substrate: from min. +5 °C to max. +35 °C.
Low temperatures increase, while high temperatures decrease the working and setting time.

Vertical surface waterproofing and waterproofing in and under walls:

Apply the product in two layers on the previously prepared substrate.

Pipes passing through walls

W1-E: seal pipe penetrations by using the product to form a cove around them.

Wall base render

A thin layer of bonding and reinforcing mortar can be applied over the top.
Embed the reinforcing fabric in the top third of the plaster.

Coating

Direct coating with binder-rich dispersion coats.
Always set up a trial area/trial areas first.

Tips on use

During application, the surface temperature of the substrate must be > 3 kelvin above the dew point temperature of the surrounding air.
In the case of liquid-applied waterproofing materials, direct sunlight and/or wind exposure can cause accelerated skin formation and accompanying blistering.



Do not use in direct sunlight.
 The scratch layer does not as a rule count as a waterproofing layer.
 Protect the fresh waterproofing layer from rain, direct sunlight, frost and condensation water.
 Once dry, protect from mechanical damage.
 When working in poorly ventilated areas, ensure sufficient supply and extraction of air (wear respiratory protection if necessary).
 Please contact Remmers Technical Service (phone +49 5432 83900) before applying with machine processing.
The maximum wet layer thickness (single layer) must not exceed 4 mm.
 The formation/sealing of internal corners without a sealing cove has not been tested by the building authorities.
 Type I joints, in which joint tapes made of plastic or elastomer membranes with fleece or fabric lamination are to be embedded in the waterproofing, can only be executed with two-component liquid-applied waterproofing materials (FPD/MWS).

Application examples

Water impact classes (DIN 18533)		Dry layer thickness (mm)	Wet layer thickness (two layers) (mm) ****	Application rate (kg/m ²)	Yield 25 kg (m ²)
W1-E*	Ground moisture and non-pressing water	≥ 2	approx. 2.6	approx. 2.7	approx. 9.25
W2.1-E**	Moderate impact of pressing water ≤ 3 m immersion depth	≥ 3	approx. 3.9	approx. 4.0	approx. 6.25
W2.1-E**	Moderate impact of pressing water ≤ 3 m immersion depth Transition to components made from water-impermeable concrete	≥ 4	approx. 2 x 2.65	approx. 5.5	approx. 4.5
W2.2-E***	High impact of pressing water > 3 m immersion depth	≥ 4	approx. 2 x 2.65	approx. 5.5	approx. 4.5
W4-E	Splashing water and ground moisture at the wall base, and capillary water in and under walls	≥ 2	approx. 2.6	approx. 2.7	approx. 9.25

* Special agreement required for use on masonry
 ** Special agreement required
 *** Special agreement required - **only permitted on concrete substrates up to 10 m immersion depth**
 **** The maximum permissible wet layer thickness of 4 mm must not be exceeded including when applied in multiple layers (wet on wet).

Layer thickness allowance as per DIN 18533:
 The German standard prescribes a layer thickness allowance *dz* to ensure the minimum dry layer thickness *d_{min}*. This accounts for application-related fluctuations *dv* as well as the additional material needed to level out the substrate *du*. If the substrate is levelled separately (e.g. with a scratch coat), *du* is eliminated from the calculation.
du = scratch coat, application rate approx. 0.5 kg/m² (depending on the substrate)
dv = not required with layer thickness trowel / application rate without layer thickness trowel approx. 0.4 kg/m² (*d_{min}* = 3 mm)

Notes

The characteristic data of the product were calculated under laboratory conditions at 20°C and 65% relative humidity.
 Current regulations and legal requirements must be taken into account and deviations from these must be agreed separately.
 Certificates of suitability (abP) must be observed during planning and execution.
 Special agreements and certificates of suitability can be downloaded online at www.remmers.com.
 Always set up a trial area/trial areas first.
 The material is UV-resistant on vertical surfaces in the wall base area and can also be used without a coat of paint/plaster applied in areas without ground contact. A change in colour is possible, but has no impact on the waterproofing function.
 Peel tests are neither suitable nor authorised for assessing the suitability of the product for use.



Tools / Cleaning

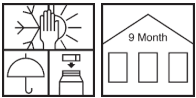


Scoop, smoothing trowel, layer thickness trowel, slurry brush, flat brush, roller
 Suitable machine technology, such as peristaltic pumps, screw pumps or airless piston pumps
 Clean tools with water while the material is still fresh.
 Any material that has already begun to dry can only be removed mechanically.

Remmers tools

- > **Kratzkelle (4113)**
- > **Schöpfkelle (4103)**
- > **Profile Trowel (5047)**
- > **Schichtdickenkelle (4000)**
- > **Rundkelle (4114)**
- > **Flächenstreicher (4540)**
- > **Pro nylon roller (5045)**
- > **Heizkörperpinsel (4541)**
- > **Glättkelle (4117)**
- > **Smoothing Trowel Duo (4118)**
- > **Smoothing Trowel (4004)**

Storage / Shelf life



If stored unopened in its original container in a cool, dry place and protected against frost, the product will keep for at least 9 months.

Safety data / Regulations

For further information on the safety aspects of transporting, storing and handling the product and on disposal and environmental matters, please see the current Safety Data Sheet.

Disposal

Larger quantities of leftover product should be disposed of in the original containers in accordance with the applicable regulations. Completely empty, clean containers should be recycled. Do not dispose of together with household waste. Do not allow to enter the sewage system. Do not empty into drains.

Biocidal Products Regulation

Contains a biocidal product (in-can preservative) with the biocidal agents CMIT/MIT (3:1) for protecting the container content from deterioration by microbial organisms (germs, yeast, etc.). Please note the processing guidelines carefully!

Declaration of performance

> **Declaration of performance**

Declaration of conformity



NB 0761

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GBI-P 116-1

EN 14891: 2012-07

0851

Liquid applied water impermeable product for external installations on walls and floors, beneath ceramic tiling (bonded with Remmers FL fix C2 adhesives in accordance with EN 12004)

Initial tensile adhesion strength:	≥ 0.5 MPa
Tensile adhesion strength after water contact:	≥ 0.5 MPa
Tensile adhesion strength after heat ageing:	≥ 0.5 MPa
Tensile adhesion strength after freeze-thaw cycles:	≥ 0.5 MPa
Tensile adhesion strength after contact with chlorine water:	≥ 0.5 MPa
Tensile adhesion strength after contact with lime water:	≥ 0.5 MPa
Waterproofing:	no penetration
Crack bridging ability:	≥ 0.75 mm
Crack bridging ability at low temperature (at - 5 °C):	≥ 0.75 mm



Please note that the data and information given above have been calculated as guidelines in the laboratory and from real-life experience and are therefore not binding as a basic principle.

This information is therefore of a general nature only and describes our products and how they are used and worked with. In this respect, it must be borne in mind that the varied and diverse nature of the

prevailing working conditions, materials used and construction sites encountered means that not every individual case can be covered. In this respect, we therefore recommend either conducting tests or liaising with us in the event of any doubt. Unless we have provided express written assurance of the products' specific suitability or characteristics in respect of a contractually stipulated intended use, any technical application-related advice or instruction will never

be binding, even though it is provided to the best of our knowledge. In all other respects, our general terms and conditions of sale and delivery shall apply.

When a new version of this Technical Data Sheet is published, it shall replace the previous version.