



MB 2K

- Multi-Tight 2K -

Flexible, polymer thick coating

Combines the properties of flexible and crack-bridging mineral waterproofing grouts (MWG) and bitumen-thick coatings (PMBC)



Availability		
Quantity per pallet	44	18
Packaging unit	8,3 kg	25 kg
Type of container	Combi-container (1 x 4.8 kg powder + 3.5 kg polymer)	Combi-container (3 x 4.8 kg powder + 10.6 kg polymer)
Container code	08	25
Art. no.		
3014	■	■

Application rate

At least 1.2 kg/m²/mm of dry coat thickness



Coat thicknesses and application rate when used as a crack-bridging MWG both indoors and outdoors: see application rate table under application examples.

Range of use



- For rapid waterproofing of building elements as well as containers, tanks and reservoirs, both indoors and outdoors
- Waterproofing in new buildings
- WTA-compliant retroactive waterproofing
- Can be applied > 3 m below ground
- Approved for connecting to water impermeable concrete structures
- Waterproofing of plinths and base points
- Waterproofing in a bond
- Bonding layer on old bitumen coatings
- Repair of flat roof waterproofing on roofs of structures which are not habitations
- Horizontal waterproofing in and underneath walls
- For attaching perimeter insulation panels

Property profile

- Complete drying and cross-linking occur rapidly, after just 18 hours



- Solvent-free
- Bitumen-free
- Water pressure tight
- High tensile adhesion strength
- Highly flexible, elastic and crack-bridging
- Can be covered after a very short time (≥ 4 h)
- UV-resistant
- Resistant to frost and de-icing salt
- Can be plastered and painted over
- Can be applied as a grout, with a brush or trowel, or by spraying

Characteristic data of the product

Crack-bridging	≥ 2 mm (with a dry layer ≥ 3 mm thick)
Layer thickness	1.1 mm thick wet layer produces approx. 1 mm thick dry layer
Cross-slit pressure tests	passed, even without a layer of reinforcement
Water vapour diffusion	$\mu = 6600$
Water impermeability	up to a 10 m water column
Base	polymer binder, cement, additives, special fillers
Time until thoroughly dry (5 °C / 90% relative humidity)	approx. 18 hours for a 2 mm layer
Bulk density of fresh mortar	approx. 1.1 kg/dm ³
Consistency	paste-like

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

Certificates

- [AbP P-5383/119/14 MPA-BS gemäß PG AIV-F](#)
- [AbP P-5344/081/14 MPA-BS gemäß PG MDS](#)
- [AbP P-1200/555/15 MPA-BS gemäß PG FBB](#)
- [AbP P-5383/120/14 MPA-BS gemäß PG ÜBB](#)
- [Prüfbericht 1200/188/15 MPA-BS gemäß DIN EN 14891](#)
- [U-Bericht 1200/026/15 MPA-BS gemäß DIN EN 15814 \(PMBC\)](#)
- [U-Bericht 15-765 Frost-Tau-Wechselbeanspruchung](#)
- [Klassifizierung zum Brandverhalten nach DIN EN 13501-1, MPA BS](#)
- [Prüfbericht 1201/408/16 als Fliesenkleber C2E S2, MPA BS](#)

Possible system products

- [Kiesol \(1810\)](#)
- [Kiesol MB \(3008\)](#)
- [Dichtspachtel \(0426\)](#)
- [VM Fill \(0517\)](#)
- [Verbundmörtel S \(0519\)](#)
- [Remmers waterproofing grouts](#)
- [Multikleber \(2856\)](#)
- [Flexkleber schnell \(2845\)](#)
- [DS-Systemschutz \(0823\)](#)
- [Fugenband SK 10/Fugenband SK 25 \(5017\)](#)
- [Fugenband VF 120/500 \(5071\)](#)
- [Selectmix RMS \(6752\)](#)



Preparation

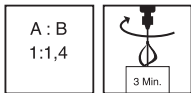
■ Substrate requirements

Even-surfaced, mineral substrate.
The substrate must be clean, solid and free of oils, grease and release agents.
Matt damp surfaces are permitted.

■ Substrate preparation

Remove projecting seams and mortar remains.
Break off corners and edges.
Coves must be rounded out.
Close indentations > 5 mm with a suitable filler or with MB 2K mixed with Selectmix RMS (MR of between 1:1 and 1:3).
If necessary, provide damp proofing.
Prime mineral substrates with Kiesol/Kiesol MB.
On weakly absorbing substrates, apply a scratch coat (approx. 800 g of MB 2K/m²) with the product itself in order to prevent blisters.
Roughen the surface of plastic pipes with sandpaper; clean and, if necessary, sand metal pipes.

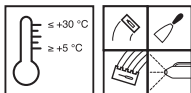
Production of the mixture



■ Combi-container

Stir the liquid component with a suitable mixing tool.
Loosen the powder component and add it in full to the liquid component.
Mix for approx. 1 minute before suspending the mixing process to allow the air that has been stirred in to escape.
Remove the powder adhering to the side.
Mix again for 2 minutes.
Keep the mixing tool near the bottom of the bucket while mixing.

Directions



■ Conditions for use

Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.
Low temperatures increase, high temperatures reduce the working and setting time.

■ Working time (+20 °C)

30-60 minutes

Horizontal waterproofing in and underneath walls
Apply the material in two layers on the previously prepared substrate.
The second layer is applied once the first layer can no longer be damaged when worked over.

Vertical surface waterproofing

Apply the material in two layers on the previously prepared substrate.
The second layer is applied once the first layer can no longer be damaged when worked over.

Horizontal surface waterproofing

Apply the material in two layers on the previously prepared substrate.
The second layer is applied once the first layer can no longer be damaged when worked over.

After the waterproofing has dried thoroughly, place two layers of PE sheet over the waterproofing before the screed is laid.

At the edges, the waterproofing layer is applied up to the upper edge of the floor or up to the horizontal barrier.

Pipes passing through walls

Seal passing-through pipes by using the product to form a cove around them.



When an adhesive flange or loose/fixed flange is used for pipes passing through walls, they should be bedded into the waterproofing.

Use Remmers Pipe Flange in cases where the water load is "pressing water".

In areas that are permanently wet, use the Wall Gasket VF on passing-through pipes.

Connection details/building element joints

Corners and connection joints in permanently wet areas should be bridged with the VF Water Stop System.

Apply MB 2K as a contact layer and insert the Water Stop VF 120.

The connection to rising building elements (e.g. windows and doors etc. that go down to the floor) is carried out using the self-adhesive SK Water Stop System and then finished with MB 2K.

Application of render

If render is to be subsequently applied, an additional layer of grout should be spread on to the last layer of waterproofing. Remmers Preparatory Mortar can then be thrown over the entire surface of the fresh layer of grout.

Work can be continued with Compound Mortar and reinforcement mortars after approx. 4 hours without an additional layer of grout/Preparatory Mortar.

Follow-up work and covers

After 4 hours, work can be continued with adhesive mortar, filling mortar or reinforcement mortar.

Coating

Direct coating with binder-rich dispersion coats.

Always set up a trial area/trial areas first.

Tips on use

Do not use under direct sunlight.

The scratch layer does not as a rule count as a waterproofing layer.

The maximum total wet coat thickness must not exceed 5 mm.

Mortar that has already set cannot be made workable again by adding water or fresh mortar.

Protect the fresh waterproofing layer from rain, direct sunlight, frost and condensation water.

Once dry, protect from mechanical damage.

Unless a further load-distributing layer is added, the product is not suitable for waterproofing under raised floor supports.

Ensure sufficient ventilation when applying the product in closed areas (wear respiratory protection if necessary).

Application examples



Load group	Dry layer thickness (mm)	Wet layer thickness (mm)	Application rate (kg/m ²)	Yield 25kg (bucket) (m ²)
Waterproofing in and under walls	≥ 2.0	approx. 2.2	approx. 2.5	approx. 10.0
Splash water/plinth waterproofing	≥ 2.0	approx. 2.2	approx. 2.5	approx. 10.0
Ground damp and moisture	≥ 2.0	approx. 2.2	approx. 2.5	approx. 10.0
Standing seepage water and water pressure	≥ 3.0	approx. 3.3	approx. 3.7	approx. 6.8
Waterproofing in transition to water impermeable concrete structures	≥ 4.0	approx. 4.6	approx. 5.1	approx. 4.9
Installation depths > 3 metres	≥ 3.0	approx. 3.3	approx. 3.7	approx. 6.8
Water reservoirs with water depths up to 10 metres	≥ 3.0	approx. 3.3	approx. 3.7	approx. 6.8
Moisture on ceiling surfaces	≥ 3.0	approx. 3.3	approx. 3.7	approx. 6.8

Application rates for levelling and scratch coats must be considered separately. The indicated application rates may increase as a result of manual processing.

Notes

The characteristic data of the product were calculated under laboratory conditions at 20°C and 65% relative humidity.
Deviations from applicable regulations must be agreed separately.
The guideline "Planning and Execution of Waterproofing Building Elements with Ground Contact using Flexible Waterproofing Grouts", published by Deutsche Bauchemie, 2nd edition as per 2006, should be observed.
A separate agreement must be made with the owner of the building for the use of MB 2K for the application areas described in this TDS.
The relevant test certificates must be observed when planning and carrying out work. The special agreements as well as test certificates can be downloaded online at www.remmers.de.
Always set up a trial area/trial areas first.

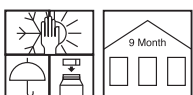
Tools / Cleaning



Mixing tool (e.g. Collomix mixer DLX 152), ladle, smoothing trowel, floor finish scraper, wide brush, surface brush, roller

Clean tools with water before mortar sets.
Any material that has already begun to dry can only be removed mechanically.

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.

Personal protective equipment Respiratory protection with a particle filter P2 must be worn during spraying, together with protective goggles. Wear suitable protective gloves and clothing.

GISCODE ZP1

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.

CE marking



0761

Remmers GmbH

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GBI P75

EN 14891: 2012 + AC: 2012

MB 2K

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

Initial tensile strength: $\geq 0.5 \text{ N/mm}^2$

Tensile adhesion strength after contact with water: $\geq 0.5 \text{ N/mm}^2$

Tensile adhesion strength after heat ageing: $\geq 0.5 \text{ N/mm}^2$

Tensile adhesion strength after freeze-thaw cycles: $\geq 0.5 \text{ N/mm}^2$

Tensile adhesion strength after contact with lime water: $\geq 0.5 \text{ N/mm}^2$

Waterproofing: No penetration

Crack bridging ability under normal conditions: $\geq 0.75 \text{ mm}$

Crack bridging ability at low temperatures: $\geq 0.75 \text{ mm at } -5 \text{ }^\circ\text{C}$

Release of dangerous substances: NPD

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.