



## MB 2K [eco]

Two-component, multi-functional building waterproofing material based on renewable raw materials



| Availability        |  |
|---------------------|--|
| Quantity per pallet | 18   |
| Size / Quantity     | <b>25 kg</b>   |
| Type of container   | Combi-container<br>(2 x 6.25 kg powder comp. + 2 x 6.25 kg liquid comp.) |
| Container code      | 25   |
| Art. no.            | 2940   |

### Application rate

Approx. 1.15 kg/m<sup>2</sup>/mm dry layer thickness

Approx. 4.6 kg/m<sup>2</sup> for a dry layer thickness of 4 mm

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



### Range of use



- Rapid waterproofing
- Waterproofing in new buildings
- Can be applied > 3 m in the ground
- Mineral substrates
- Exterior waterproofing in strip form for construction joints on concrete components with high resistance to pressing water penetration (water impact class W2.1-E)
- Waterproofing of new buildings according to DIN 18533 for water impact classes W1-E, W2.1-E, W3-E and W4-E
- Waterproofing of plinths and base points
- Bonding layer on old bitumen coatings

### Property profile



- Very low emissions (GEV-EMICODE EC 1<sup>Plus</sup>)
- Fast drying and cross-linking after 24 hours at 5 °C and 90% relative humidity
- Solvent-free
- Bitumen-free
- Water pressure tight
- Radon-tight (verified through testing)
- High tensile adhesion strength
- Highly flexible, elastic and crack-bridging
- Can be plastered and painted over
- Can be applied as a slurry, with a brush or trowel, or by spraying
- Excellent adhesion even on non-mineral substrates (e.g. plastics, metals)
- UV-resistant

### Characteristic data of the product

|                              |  |
|------------------------------|--|
| Base                         | 100% sustainable polymer binder, cement, additives, special fillers  |
| Crack-bridging               | 2 mm according to DIN EN 1062 Part 7   |
| Layer thickness              | 1.2 mm wet layer thickness yields approx. 1 mm dry layer thickness   |
| Water impermeability         | Tested up to 10 m water column   |
| Drying time                  | Approx. 24 hrs for 4 mm layer thickness (5 °C/90% RH)<br>Approx. 8 hrs for 4 mm layer thickness (23 °C/50% RH) |
| Reaction to fire class       | E (DIN EN 13501-1)   |
| Bulk density of fresh mortar | Approx. 1.15 kg/dm <sup>3</sup>  |
| Consistency of the mixture   | Paste-like   |



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

**Certificates**

- **Prüfbericht Radondichtigkeit**
- **AbP PG MDS\_P-1203/773/22\_MPA BS**
- **AbP PG FPD\_P-1203/774/22\_MPA BS**
- **AbP PG FBB\_P-1203/775/22\_MPA BS**
- **Klassifizierung Brandverhalten n. DIN EN 13501-1**
- **Assessment according to DGNB criterion ENV 1.2**
- **Qualitätssiegel Nachhaltige Gebäude (QNG)**
- **EPD (Remmers)**
- **EPD-NIBE-20220711-28756**

**Possible system products**

- **MB ADD S (3079)**
- **WP DKS rapid <sup>[basic]</sup> (0423)**
- **WP DS Levell (0426)**
- **Tape VF 120 [eco] (4827)**
- **Tex 5/100 [eco] (4826)**
- **DS Protect <sup>[basic]</sup> (0815)**
- **DS Protect (0823)**
- **Selectmix RMS (6752)**

**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 must be slightly damp.

■ **Substrate preparation**

Remove projecting seams and mortar remains.

Break off or chamfer corners and edges.

Reinforce inner corners and connection areas to non-mineral building components with Tape VF. Alternative for internal corners: create a mineral sealing cove using a suitable mortar, e.g. WP DKS rapid [basic].

Seal construction joints of concrete cellars with WP DKS rapid [basic].

Use a suitable mineral mortar or MB 2K [eco] mixed with a suitable quartz sand (1:1 to 1:3 by mass) to seal depressions > 5mm.

Coarse-pored substrates can be sealed beforehand using a scratch coat of MB 2K [eco] mixed with sand (Selectmix RMS).

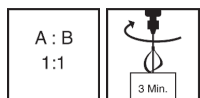
Openings can be reinforced with a sealing sleeve for pipe feed-throughs, Tape VF 350 HC.

If necessary, provide damp proofing.

Prime absorbent, mineral substrates with Kiesol MB.

Apply a scratch coat of the product as a contact layer and to prevent blistering (approx. 350 - 500 g/m<sup>2</sup> MB 2K [eco]).

**Production of the mixture**



■ **Combi-container**

Stir the liquid component with a suitable mixing tool.

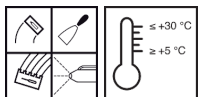
Loosen the powder component and add it in full to the liquid component.

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 approx. 2 minutes.

**Directions**



■ **Conditions for use**

Temperature of the material, air and substrate: from min. +5 °C to max. +30 °C.

Low temperatures increase, while high temperatures decrease the working and setting time.

■ **Working time (+20 °C)**

60 - 90 minutes

**Surface waterproofing**

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.

W2.1-E: use an adhesive flange or a suitable loose/fixed flange to integrate pipe penetrations into the waterproofing material.

**Connection details/building element joints**

Reinforce corner and connection joints as well as connections to rising building components (e.g. floor-to-ceiling windows, doors, etc.) with Tape VF.

Apply the product, embed Tape VF over the entire surface, ensuring that there are no bubbles or creases.

**Subsequent coatings**



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

**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.

Do not use on untreated aluminium.

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

The maximum total wet film thickness must not exceed 8 mm.

Moving the material (e.g. by stirring) in the mixing bucket can prevent premature skin formation.

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.

Please contact Remmers Technical Service (phone +49 5432 83900) before applying with machine processing.

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

**Instructions for spray application:** Personal protective equipment required. When applying by spraying, wear respiratory protection with particle filter P2 and safety glasses, suitable protective gloves and clothing.

**Application examples**

| Water impact classes (DIN 18533/18535) |  | Dry layer thickness (mm) | Wet layer thickness (mm) | Application rate (kg/m <sup>2</sup> ) | Yield 25 kg (m <sup>2</sup> ) |
|--|--|--------------------------|--------------------------|---------------------------------------|-------------------------------|
| W1-E*                                  | Ground moisture and non-pressing water   | ≥ 3                      | approx. 3.3              | approx. 3.45                          | approx. 7.2                   |
| W2.1-E**                               | Moderate impact of pressing water ≤ 3 m immersion depth  | ≥ 4                      | approx. 4.4              | approx. 4.6                           | approx. 5.4                   |
| W2.1-E**                               | Moderate impact of pressing water ≤ 3 m immersion depth<br>Transition to components made of water-impermeable concrete | ≥ 4                      | approx. 4.4              | approx. 4.6                           | approx. 5.4                   |
| W3-E**                                 | Non-pressing water on earth-covered slabs  | ≥ 3                      | approx. 3.3              | approx. 3.45                          | approx. 7.2                   |
| W4-E                                   | Splashing water and ground moisture at the wall base, and capillary water in and under walls                           | ≥ 2                      | approx. 2.2              | approx. 2.3                           | approx. 10.9                  |
| W2-B                                   | Water load in tanks with a fill level ≤ 10 m   | ≥ 4                      | approx. 4.4              | approx. 4.6                           | approx. 5.4                   |

\* Special agreement required on masonry

\*\* Special agreement required

Layer thickness margin according to DIN 18533:

du = scratch coat application rate approx. 0.5 kg/m<sup>2</sup> (depending on the substrate)

dv = not necessary with layer thickness trowel / application rate without layer thickness trowel approx. 0.4 kg/m<sup>2</sup> (dmin = 3 mm)

**Notes**

The characteristic data of the product were calculated under laboratory conditions at 20°C and 65% relative humidity.

May corrode metals.

Current regulations and legal requirements must be observed 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](http://www.remmers.com).

Always set up a trial area/trial areas first.

Peel tests are neither suitable nor authorised for assessing the suitability of the product for use.

**Tools / Cleaning**



Mixing tool, scoop, layer thickness trowel

Clean tools with water while the material is still fresh.

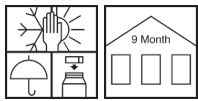
Any material that has already begun to dry can only be removed mechanically.

**Remmers tools**



- › Collomix Rührer DLX 152 HF (4286)
- › Collomix® Stirrer KR (4292)
- › Collomix® HEXAFIX® Nachrüstadapter (4283)
- › Kratzkelle (4113)
- › Schöpfkelle (4103)
- › Schichtdickenkelle (4000)
- › Profile Trowel (5047)
- › Rundkelle (4114)
- › Flächenstreicher (4540)
- › Rollerbügel (4449)
- › Pro nylon roller (5045)
- › Heizkörperpinsel (4541)
- › Schlämbbürste (4517)
- › 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.

**Declaration of performance**

› **Declaration of performance**

**Declaration of conformity**



NB 0761

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**23 (CE); 23 (UKCA)**

**GBI-P 114-1**

EN 14891: 2012-07

**2940**

Liquid applied water impermeable product 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.