



## MB FL 2K

3 in 1 composite waterproofing

Combines the functions of waterproofing, tile cement and grout in one material



Availability		
Quantity per pallet	44	18
<b>Size / Quantity</b>	<b>6,67 kg</b>	<b>20 kg</b>
Type of container	Combi-container (1 x 4.2 kg powder + 1 x 2.47 kg polymer)	Combi-container (3 x 4.2 kg powder + 3 x 2.47 kg polymer)
Container code	06	20
<b>Art. no.</b>		
3001	■	■

### Application rate



As waterproofing:  
Min. 1.3 kg/m<sup>2</sup>/mm dry layer thickness

As tile cement:  
8 mm tooth: approx. 2.9 kg/m<sup>2</sup>  
10 mm tooth: approx. 3.5 kg/m<sup>2</sup>  
12 mm tooth: approx. 4.4 kg/m<sup>2</sup>

As joint filler:  
Approx. 0.2 kg/m<sup>2</sup> (6 mm joint width, tile 30/60 cm, 6 mm thick, total joint length 410 cm)

### Range of use



- 3 in 1: waterproofing, tile cement and joint mortar
- Interior and exterior, floor areas
- Waterproofing in a bond under tiles
- Suitable for new and old buildings
- Waterproofing balconies, loggias and pergolas
- Waterproofing bathrooms and transition areas in swimming pools

### Property profile

- Highly flexible
- Water impermeable
- Reactive drying
- A light colour shade enables pigmentable joint colours
- Joint width of 6 - 12 mm
- For heated floor coverings

### Characteristic data of the product

Base	Polymer binder, cement, additives, special fillers
Rain resistance (joint)	2 hours (23 °C, 65% RH)
Layer thickness	1.2 mm wet layer thickness yields approx. 1 mm dry layer thickness
Water impermeability	Approx. 1.5 bar
Drying time	1 mm layer thickness: approx. 4 hours (23°C, 50% RH); approx. 11 hours (5°C, 90% RH) 2 mm layer thickness: approx. 8 hours (23°C, 50% RH); approx. 22 hours (5°C, 90% RH)
Reaction to fire	Class E
Bulk density of fresh mortar	Approx. 1.14 kg/dm <sup>3</sup>
Consistency	Paste-like

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

### Possible system products

- Kiesel MB (3008)



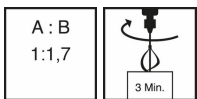
- Clean FL (0651)
- Pigment FL (2863)
- Betofix R4 EM <sup>[basic]</sup> (1086)
- Protect MKT 1\* (3024)
- Primer Hydro F (2842)
- Tape VF-Serie

\*Use biocidal products carefully.  
Always read the label and product information before use.

## Preparation

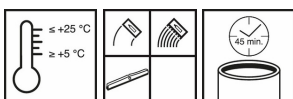
- **Substrate requirements**  
The substrate must be level, clean, dust-free and stable, and free of oil, grease and release agents.  
Roughen non-mineral substrates.  
On fresh screeds, the residual moisture must not exceed 3%.
- **Substrate preparation**  
Remove projecting seams and mortar remains.  
Break off or slope corners and edges.  
Prime absorbent mineral substrates with Kiesol MB.  
Create a scratch coat using the product as a contact layer and in order to prevent blisters.  
If necessary, use suitable products to level out any sloping (e.g. Betofix R4 EM).  
Reinforce transitions to balcony edge profiles with Tape VF.  
When using as waterproofing: use Tape VF to reinforce transition areas such as full-length window elements, inner corners and floor/wall joints.  
Depending on weather conditions and positioning, green discolouration may occur on exterior joints. In order to prevent green growth on the surfaces filled with MB FL 2K, it is recommended to add Remmers Protect MKT 1. Add approx. 78 ml of Remmers Protect MKT 1 to one pouch of liquid component.  
Interiors: calcium sulfate screeds must be sanded then vacuumed.  
Residual moisture CA/CAF screed heated < 0.3 CM-%/ unheated <0.5 CM-%.  
Prime gypsum-based substrates (Primer Hydro F).

## Production of the mixture



- **Mixing**  
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, stop mixing to scrape off any powder that adheres to the edge. (Venting the mixture is not necessary.)  
Mix again for 2 minutes.  
Keep the mixing tool near the bottom of the bucket while mixing.  
**Mixing ratio for wall tiles A : B 1 : 2.3**

## Directions



- **Conditions for use**  
Temperature of the material, air and substrate: from min. +5 °C to max. +25 °C.  
Low temperatures increase, while high temperatures decrease the working and setting time.
  - **Working time (+20 °C)**  
Min. 45 minutes
- Waterproofing:**  
Apply MB FL 2K waterproofing to the substrate in two coats using suitable tools. The minimum dry layer thickness for both waterproofing layers must be at least 2 mm.  
In connection and transition areas, the joint tapes and moulded parts of the Tape VF series are to be inserted into the still fresh first waterproofing layer and covered with the second waterproofing layer.
- Laying the tiles:**  
Once the waterproofing layers have fully dried, use a notched trowel to apply MB FL 2K as a thin-bed mortar. It is recommended to use the buttering-floating method for exteriors. Place the tile onto the fresh mortar bed, applying light pressure. To avoid skin formation, only apply as much thin-bed mortar as can be covered with tiles in approx. 15 min.  
Immediately remove fresh mortar residues from the top of the covering with water to avoid stronger adhesions.  
Remove excess mortar from the joint network.
- Grouting tiles:**  
The joints must be completely dry to avoid trapping moisture in the joint. Apply MB FL 2K grout to the joints with an epoxy grouting scraper in sections. If necessary, the consistency for use as a grout can be adjusted by adding max. 300 ml clean water (to 6.67 kg material). Wipe surfaces promptly with a sponge and wash clean with a sponge float and water. After complete drying, residues/adhesions can be cleaned with Remmers Clean FL.

## Tips on use


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 coat thickness must not exceed 5 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.  
Add a further load-distributing layer if using the product for waterproofing under raised floor supports.  
Ensure sufficient ventilation when applying the product in closed areas (wear respiratory protection if necessary).

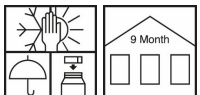
**Notes**  
Deviations from applicable regulations must be agreed separately.  
The relevant test certificates must be observed when planning and carrying out work.  
The applicable regulations and legal requirements must be observed.  
The special agreements as well as test certificates can be downloaded online at [www.remmers.com](http://www.remmers.com).  
Always set up a trial area/trial areas first.

**Tools / Cleaning**  
Mixing apparatus, smoothing trowel, notched trowel, rubber scraper



Clean tools with water while the material is still fresh.  
Any material that has already begun to dry can only be removed mechanically.  
Dry, adhering material can be cleaned with Remmers Clean FL.

**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**




---

0761  
**Remmers GmbH**  
Bernhard-Remmers-Str. 13, D – 49624 Lönigen

---

21  
**GBI P95**  
EN 14891: 2012-07  
**3001**


---

Liquid applied water impermeable product for external installations on walls and floors, beneath ceramic tiling (class CM 01)

---

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 lime water:	≥ 0.5 MPa
Waterproofing	No penetration
Crack bridging ability:	≥ 0.75 mm
Crack bridging ability at low temperatures (-5°C):	≥ 0,75 mm

\*\*\*\*\*




---

0761  
**Remmers GmbH**  
Bernhard-Remmers-Str. 13, D – 49624 Lönigen

---

21



**GBI P96-1**  
EN 12004: 2017-05  
**3001**

Improved cementitious adhesive for internal and external tiling (class C1 E S2)

Initial tensile adhesion strength:	≥ 0.5 MPa
Tensile adhesion strength after water immersion:	≥ 0.5 MPa
Tensile adhesion strength after thermal ageing:	≥ 0.5 MPa
Tensile adhesion strength after heat freeze and thaw cycles:	≥ 0.5 MPa

Open time: tensile adhesion strength:	≥ 0.5 MPa
Extended open time: tensile adhesion strength:	≥ 0.5 MPa
Slipperiness***:	≥ 0.5 MPa

\*\*\* With a mixing ratio of 1 : 2.3

\*\*\*\*\*



0000

**Remmers GmbH**  
Bernhard-Remmers-Str. 13, D – 49624 Lönningen

22

**GBI P97**  
EAD 030352-00-0503: 2019-01  
**3001**

Kit for waterproofing for floors and walls in wet rooms

Repairability (according to EN 14891 A.6.2.A)	repairable
Joint bridging ability	no leaks
Water vapour permeability (μ)	313
Watertightness around penetrations (Annex A, F)	watertight
Crack bridging (EN 1062-7)	Category 1

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.