

# BKM DS-1K

1-component, mineral sealing slurry  
technical data sheet

Article-No.: H-001-901

## Product description

- Rigid sealing slurry
- For interior and exterior
- For walls and floors
- Waterproof
- Hydraulically setting
- Sulfate resistant
- Open to diffusion, resistant to frost and aging
- Suitable for all load-bearing substrates commonly used in construction
- Adheres without primer to matt damp substrates
- Easy and economical application
- Can be painted, trowelled or sprayed with suitable equipment
- Building waterproofing according to DIN 18533-Part 2, Table 7
- Proof of use against water attacking concrete according to DIN 4030
- Proof of use against negative pressure water loads

## Application areas

Can be used on walls and floors for substrates not subsequently subject to cracking.

For sealing building components in contact with the ground against ground moisture, non-accumulating seepage water, accumulating seepage water/pressure water and water pressing in from the inside.

As subsequent interior waterproofing against moisture penetrating from the outside.

## Specification

<b>Base:</b>	Sand/cement, plastic-modified
<b>Density of the mixed mortar:</b>	approx. 1,85 g/cm <sup>3</sup>
<b>Mixture:</b>	approx. 6.7 l water for 25 kg BKM DS-1K
<b>Processing time *):</b>	approx. 60 minutes
<b>Substrate/processing temp.:</b>	+5 °C to +30 °C
<b>Adhesive tensile strength, according to DIN EN 1542:</b>	> 0,5 N/mm <sup>2</sup> after 28 days
<b>Water impermeability, according to DIN EN 12390-8(PG MDS), 28d 1.5 bar:</b>	Passed
<b>Waterproofing against negative pressure water:</b>	1,5 bar
<b>Watertightness in the installed condition according to PG MDS, (10 m WS):</b>	1 bar



## Load case/material requirement/dry film thickness:

- Soil moisture/non-accumulating seepage water:  
3.5 kg/m<sup>2</sup>/approx. 2.0 mm
- Accumulating seepage water/pressurized water:  
4.5 kg/m<sup>2</sup>/approx. 2.5 mm

## In accordance with WTA bulletin „Subsequent waterproofing of building components in contact with the ground“:

- Soil moisture/non-accumulating seepage water:  
min. 3.5 kg/m<sup>2</sup> (approx. 2 mm)
- Accumulating seepage/pressurized water:  
min. 5.3 kg/m<sup>2</sup> (approx. 3 mm)

## Waterproofing according to DIN 18533, part 7:

- Water pressing from the inside:  
min. 3.5 kg/m<sup>2</sup> (approx. 2 mm)

Apply approx. 1.1 mm wet layer thickness per mm dry layer thickness.

## Load capacity \*):

- Rainproof on inclined surfaces after approx. 8 hours, standing water load must be avoided
- By walking after approx. 1 day
- By pressurized water after approx. 7 days

\*) at +23 °C and 50 % relative humidity. Due to weather conditions, the specified data may be extended or shortened.

## Product application

### Surface preparation

BKM DS-1K must be applied on a load-bearing, largely even and pore-open substrate. The surface must be self-contained and free of dust, gravel pockets and gaping cracks. Substances that reduce adhesion, such as oils or paints, must be removed completely. The substrate may be damp but not wet.

Concrete with a dense structure, plaster surfaces and fully jointed masonry are suitable substrates. Uneven and coarsely porous wall surfaces should be levelled with BKM HS.

The substrate must be matt damp when applying BKM DS-1K. be matt damp.

Pre-slurry the base, wall junctions and corners with BKM-HS. A cove made of BKM-HS with a side length of at least 4 cm can be installed fresh in fresh.

### Processing

1. Prepare the substrate according to the substrate requirements.
2. At the time of application of BKM DS, the substrate must be matt damp.
3. Approx. 6.7 l of clean water is mixed in a clean mixing bucket with enough dry mortar to produce a homogeneous and lump-free mass. A mixing time of approx. 2-3 min. is required with a powerful stirrer (approx. 500-700 min<sup>-1</sup>).
4. BKM DS can be applied by brush or trowel. At least two working passes are required. The second working pass, as well as subsequent working passes, can only be carried out when the first working pass can no longer be damaged by walking on or further application.

To achieve uniform layer thickness, the application can be carried out with a 4 to 6 mm notched trowel followed by smoothing. Application thicknesses of more than 2 kg/m<sup>2</sup> in one operation should be avoided. Proper setting of the material would then no longer be possible. This may lead to cracking.

Alternatively, BKM DS can also be applied by spraying with suitable spraying equipment.

### Drainage and protection plates for components in contact with the ground:

Waterproofing must be protected against weathering and mechanical damage by suitable protective measures in accordance with DIN 18533 Part 10. Protective coatings are to be applied only after complete drying.

## Comments

### Packaging unit

25 kg bag

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### Cleaning the equipment:

In fresh state with water, dried material is difficult to remove

### Storage

dry, 12 months in the original sealed container, use up opened containers immediately

## Legal notice

The above information, in particular the suggestions for processing and use of our products, are based on our knowledge and experience under normal circumstances, provided that the products have been stored and applied correctly. Due to the different materials, substrates and divergent working conditions, a guarantee of a working result or a liability, regardless of the legal relationship, cannot be justified on the basis of these instructions or verbal advice, unless we are accused of intent or gross negligence in this respect. In this respect, the user must prove that all knowledge necessary for a proper and promising assessment by BKM was provided to BKM in writing, in time and in full. The user must check the suitability of the products for the intended application. We reserve the right to make changes to product specifications.

Proprietary rights of third parties must be respected.

The latest product data sheet applies and must be requested from us. The responsibility for the successful application of our products lies with the user, as the use is beyond our control. However, we ensure the quality of our products in accordance with our conditions of sale and delivery, without guaranteeing the success of their application. Our data sheets represent advice based on our best knowledge, but no obligation can be derived from them. Our written consent is required to guarantee properties and application possibilities that go beyond the information recorded in the data sheets.

### Further information can be found at:

[www.bkm-mannesmann.de](http://www.bkm-mannesmann.de)