

BKM HDS-2K

HybridSealingSlurry
technical data sheet

Article-No.: H-001-914

Product description

- Multifunctional
- Highly flexible
- Crack-bridging
- Hydraulic & self-crosslinking setting
- Fast reactive through-drying
- Rainproof after only 3 hours, ready for foot traffic and recoating
- Diffusion-open, frost-, UV- and aging-resistant
- Sulfate and de-icing salt resistant
- Can be painted, trowelled or sprayed with suitable equipment
- Adheres without primer even on matt damp substrates
- Low emission EC1 PLUS according to GEV-EMICODE

Specification

Base:	Liquid component, powder component Polymer dispersion Special cement, functional fillers
Mixing ratio:	1 part by weight 1 part by weight
Delivery form:	20 kg combi bundle: 10 kg bucket 2 x 5 kg bags
Color:	white, gray
Density:	approx. 1.3 kg/dm ³
Grain size:	< 1,0 mm
Processing time*:	approx. 45 minutes
Revisable*:	after approx. 2-4 hours
Substrate-/ Processing temp...:	+5 °C to +30 °C
Adhesive tensile strength, according to DIN EN 1542:	> 1,0 N/mm ²
Crack bridging, gemäß DIN 28052-6 (PG MDS , AIV):	0,4 mm
Crack bridging, according to DIN EN 14891 at normal and low temperatures:	≥ 0,75 mm
Watertightness in According to PG MDS and AIV:	1,5 bar
Water tightness against Negative pressure water:	1,5 bar
Water vapor diffusion coefficient μ: Sd value at 2 mm dry film thickness:	approx. 1100 approx. 2,2 m
Consumption per m² and mm layer thickness:	approx. 1,0kg/m ²

Load capacity*):

- Rainproof on inclined surfaces after approx. 3 hours, standing water exposure should be avoided
- Pressurized waterproof, (1bar) after approx. 24 h
- can be covered with tiles after approx. 3 hours

Application

Can be painted, trowelled or sprayed with suitable equipment. The *maximum layer thickness* should not exceed 5mm, which must then be applied in 3 passes. This corresponds to approx. 1.5 mm per coat thickness per work step.

Walls that are not plumb or flush must be leveled beforehand with BKM HS.

If cracks occur in the waterproofing due to environmental conditions, they can be resealed with BKM HDS-2K Scratch Filler.

With pressure water load on the back (Wall and/or floor surfaces) a one-layer pre-sealing with BKM HS must be applied before BKM HDS-2K is applied.

Areas of application

- Ground contact, negative building waterproofing (buildings in existing structures), base waterproofing as well as intermediate waterproofing on floor slabs.
- Sealing of transitions at the floor/wall connection in case of subsequent pressure waterproofing.
- Suitable for bonding protective or perimeter insulation as well as for application on old, firmly adhering bitumen substrates.

Product application

The substrate must be load-bearing, largely fully jointing and even, open pored and closed on the surface. It must be free of gravel pockets, blowholes, gaping cracks and ridges, dust and adhesion-reducing substances, e.g. oil, paint, sintered layers and loose constituents.

Suitable substrates are, e.g., concrete with a dense structure, P II and P III plasters, fully jointed masonry. Moisture-sensitive substrates, e.g. gypsum-bonded building materials, cannot be processed. Corners and edges, e.g. on sole plates etc., must be broken or chamfered. Depressions > 5 mm as well as mortar pockets, open butt or bed joints, breakouts, coarse-pored substrates or uneven masonry must be levelled with suitable cement mortar, e.g. BKM-HS.

The substrate must be pre-wetted so that it is matt damp at the time of application of BKM HDS-2K. Highly absorbent and slightly sanding substrates must be primed with BKM MHG. The primer must be completely dry before the subsequent work steps.

*) at +23 °C and 50 % rel. humidity. Due to weather conditions, the specified data may be extended or shortened. Higher temperatures and lower humidity shorten, lower temperatures and higher humidity extend the drying time.

Processing

Place approx. 50-60 % of the liquid component in a clean mixing bucket and premix with the powder component to form a homogeneous, lump-free mass.

Then add the remaining liquid component and mix sufficiently. Using a powerful stirrer (approx. 500-700 min⁻¹), a mixing time of approx. 2-3 min. is required. After a maturing time of approx. 5 minutes, homogenize the compound again thoroughly.

Mixing of BKM HDS-2K is carried out with the following mixing ratio, by parts by weight:

1 part powder component : 1 part dispersion component

Due to object or processing conditions, e.g. processing in a slurry or spraying process, addition of water up to max. 1.5 % (0.15 l/10 kg) BKM HDS-2K is permissible. Water is added after mixing the powder and liquid components.

BKM HDS-2K is applied by brush or trowel in at least two pore-free passes.

The second, as well as subsequent, passes can be made when the first pass cannot be damaged by walking or further coating (approx. 2-4 hrs., depending on ambient conditions).

A uniform layer thickness is achieved depending on the load, e.g. by using a layer thickness trowel or 4- to 6-mm notched trowel and subsequent smoothing.

Apply enough material to achieve the required dry film thickness according to the desired water exposure class. An application thickness of more than 2 kg/m² in one working operation may lead to cracking and must be avoided.

For application by spraying with suitable spraying equipment, e.g. HighPump M8 (peristaltic pump), HighPump Small or HighPump Pictor (worm pump), we recommend a nozzle size of 4.5 to 6.0 mm.

In addition, the following points must be observed when waterproofing buildings in accordance with DIN 18533 and the WTA bulletin "Subsequent waterproofing of building components in contact with the ground":

Pre-slurry the base-wall transition with BKM HDS-2K in a slurry-compatible consistency and install a sealing fillet of BKM HS with a minimum side length of approx. 4 cm, fresh in fresh. Alternatively, BKM DS-1K can be used as a bonding agent for specific projects. After drying, seal with BKM HDS-2K.

Comments

- Protect surfaces not to be treated from exposure to BKM HDS-2K.
- Water must not be allowed to affect the waterproofing during setting. Water acting on the reverse side can lead to spalling in the event of frost.
- In case of strong sunlight contrary to the course of the sun, work in the shaded areas.
- In rooms with high humidity and/or insufficient ventilation

Material requirements

Strain	Dry film thickness mm	Wet film thickness, mm	Consumption, kg/m ²
Soil moisture/ non-accumulating seepage water	> 2,0	approx. 1,0	approx. 2,0
Non-pressing water	> 2,0	approx. 1,0	approx. 2,0
Accumulating seepage water/ pressing water	> 3,0	approx. 1,5	approx. 3,0

A possible additional consumption with uneven substrates as well as variations in craftsmanship must be taken into account. Therefore, according to the standards DIN 18531, DIN 18534, DIN 18535, a thickness allowance of at least 25% should be taken into account.

(e.g. water tanks), the temperature may fall below the dew point (condensation) on the surface. This must be prevented by using suitable measures, e.g. condensation dryers. Direct heating or uncontrolled blowing in of warm air is not permitted.

- As a surface coating, BKM HDS-2K must not be exposed to point or linear loads.
- BKM HDS-2K can be plastered over and also painted over with diffusion-open, solvent-free dispersion or dispersion silicate paints (not pure silicate paints).

Packaging unit

20 kg combination pack: 10 kg bucket 2 × 5 kg bags

Tools

Clean tools with water when fresh.

Storage

Liquid component: frost-free, 9 months; in the original sealed container, use up opened containers immediately.

Powder component: cool and dry, 9 months.

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.

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Further information can be found at:

www.bkm-mannesmann.de