

BKM BDB Concrete sealing tape Flex

System consisting of epoxy adhesive and sealing tape
technical data sheet



Article-No.: H-001-982
Article-No.: H-001-980
Article-No.: H-001-983

BKM BDB Concrete sealing tape Flex
BKM BDB Concrete sealing tape Adhesive (combi-bundle)
BKM BDB Concrete sealing tape Inside corner

Product description

The BKM BDB Concrete Sealing Tape Flex System, consisting of concrete sealing tape, system adhesive and corner profiles, has been developed for the subsequent, pressure waterproof sealing of waterproof concrete components. It is used both for repairs in existing buildings and for joint sealing in new buildings.

The tension-resistant bonding ensures a hold > 2 to. tensile load per sqm. The system adhesive allows safe application to walls, ceilings and floor slabs for the following load cases:

- Pressurized water retaining (also negative) floor/wall connection sealing
- Pressure water retaining (also negative) sealing of expansion joints
- Pressure water retaining (also negative) sealing of construction joints
- Pressure water retaining (also on the back) sealing of connection joints to existing components
- Cracks in concrete parts
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Specifications

BKM BDB Concrete sealing tape Flex

Material: Flexible polyolefins / Monoflex (thermoplastic elastomer) with systemic surface treatment

Wide:	250 mm
Material thickness:	2 mm
Roll length:	20 m
Color:	grey
Working temperature:	+10°C to +30°C
Tensile strength lengthwise/crosswise:	10 N/mm ²
Elongation at break lengthwise:	680%
Elongation at break crosswise:	710%
Tear resistance longitudinal:	540 N
Tear resistance transverse:	530 N
Water vapour permeability:	125 m
UV resistance:	min. 6500 hrs.
Waterproofness:	dense
Bursting pressure:	over 50 bar
Fire behaviour:	Class E
Chemical resistance to:	Hydrochloric acid, sulphuric acid, citric acid, lactic acid, potassium hydroxide solution, sodium hypochlorite, salt water.

BKM BDB Concrete sealing tape Adhesive

Base:	2-C epoxy resin (A+B)
Mixing ratio resin/hardener:	2:1
Processing time at 20°C:	approx. 50 min.
Mixed colour:	grey
Density Component A/ Resin:	1,73 kg/l
Density component B/ hardener:	1,56 kg/l
Dense ready mixture:	1,67 kg/l
Adhesive tensile strength:	approx. 2,4 - 2,8 N/cm ²

Areas of application

For the permanent, flexible sealing of water-bearing cracks in waterproof concrete, e.g. for:

- WU-Concrete Basements
- Bridges
- Underground garages
- Car parks
- Tunnels
- Swimming pools
- Underground floors
- Industrial facilities

Product application

Surface preparation

Application in standing dampness is not permissible; in the case of matt damp substrates, the substrate can be pre-dried with flame treatment. The temperature of the building component must not be below the application temperature of +10 °C. The waterproofing must be kept frost-free within 72 hours after application.

Processing

To stop water penetrating, BKM SEF-2K (BKM SH-1K in the case of running water) is injected into the crack or joint in advance. There it reacts with the moisture to form an elastic foam and reduces the pressure water load.

After the surface has been sanded and cleaned, the area to be sealed is masked off. The BKM BDB Concrete Sealing Tape Flex adhesive is applied over the entire surface using a 4 mm notched trowel to ensure an adhesive bed thickness of at least 1.5 mm.

The BKM BDB Concrete Sealing Tape Flex is inserted into the fresh adhesive surface and force-fitted with the system adhesive. In the process, all air pockets are worked out of the adhesive bed.

The edges of the BKM BDB Concrete Sealing Tape Flex are then reworked with the system adhesive. In areas where the BKM

BDB Concrete Sealing Tape Flex is to be protected from mechanical damage, it is completely covered with the system adhesive and then sanded (fresh in fresh) with quartz sand.

When connecting corners or seam joints, the overlaps (for corners on both sides) must be at least 10cm wide.

Consumption BKM BDB Concrete Sealing Tape Adhesive

Adhesive surface

(depending on substrate): approx. 500-800 g/m

Half to full coverage (via belt) : approx. 600-800 g/m

Substrate and ambient temperature

Standard application: min. + 10° C, max. + 30° C

(No additional measures)

Use during the cold season: The absolute lower limit for the function of the system adhesive is +2°C; to ensure sufficient safety, processing above +10°C is recommended. This application range requires additional winter construction measures:

- Storage of the system adhesive as pre-tempering in e.g. a heated container.
- Maintain the absolute lower temperature limit and frost-free conditions for at least 3 days.
- If necessary, weather protection with insulation or heating mats.

Comments

Packaging unit

BKM BDB Concrete sealing tape Flex

Single article: Roll 20m

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BKM BDB Concrete sealing tape Adhesive

Single article: 15 kg Combi-bundle

Comp.A (10kg) Comp.B (5kg)

Article-No.: H-001-980

Set / BKM BDB Concrete sealing tape Flex + Adhesive

Set SMALL: Concrete sealing tape Flex 20m

+ Adhesive 15kg Combi-bundle

Article-No.: H-002-982

Set MEDIUM: 3x Concrete sealing tape Flex 20m

+ 3x Adhesive 15kg Combi-bundle

Article-No.: H-002-981

Set LARGE: 6x Concrete sealing tape Flex 20m

+ 6x Adhesive 15kg Combi-bundle

Article-No.: H-002-980

Storage

Due to the system, both the BKM BDB Concrete sealing tape Flex and the BKM BDB Concrete sealing tape Adhesive are temperature-dependent. Temperatures that are too low affect the properties of the product. After processing, however, the system is absolutely insensitive to frost!

BKM BDB Concrete sealing tape Flex

12 months in OVP when stored cool, dry and UV-protected. After opening the packaging film, process within one week, otherwise repack in film - shelf life approx. 2 months when opened. The protective film may only be removed shortly before processing.

We always recommend heating the BKM Concrete sealing tape Flex with a hot air gun to bring it into the desired shape and, for example, to prevent the corners from bending up.

BKM BDB Concrete sealing tape Adhesive

12 months in OVP when stored cool, dry and UV-protected. Opened containers must be used up quickly.

The storage temperature of BKM Concrete sealing tape adhesive should not fall below +15 °C. Otherwise the viscosity will deteriorate. Otherwise the viscosity will deteriorate.

The material can then no longer be mixed or can only be mixed with difficulty. However, if the temperature falls below this, the individual components can be returned to their original state by warming them up to approx. +30 °C without any loss of quality. The adhesive can be processed at temperatures up to +10 °C. In colder areas, it is advisable to preheat the bonding surfaces because otherwise the adhesive becomes tough very quickly and is difficult to spread.

Occupational safety and health

For more detailed information on safety during transport, storage and handling, please refer to the current safety data sheets.

Ecology

The following applies to all systems: Only return empty containers to the recycling partner Zentek. Material residues can be disposed of according to EWC key no. 08 01 11 (paint and varnish waste containing organic solvents or other hazardous substances).

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