

# BKM FK-1K

silane modified special polymer  
technical data sheet

Article-No.: H-001-913

## Product description

BKM FK-1K is a one component, thixotropic, elastic, high crack bridging, bitumen-free, water-free and solvent-free special coating on base of silane modified polymers. The product is moisture reactive and curing is without forming of bubbles. This means in areas with high temperature and humidity it leads to a very fast skin building and curing. For this reason, BKM FK-1K is applicable in almost all weather conditions. Even at high air humidity the curing is ensured.

## Product advantages

- One component
- Water-free
- Bitumen-free
- Applicable by brush, roller or spraying device
- Fast setting
- Fast protection against rain
- Highly elastic
- High crack bridging
- Absolutely watertight
- Applicable in almost all weather conditions
- Suitable for gluing of rigid foam insulation boards
- Solvent-free
- Thixotropic
- Moisture cured
- Without lightweight fillers like polystyrene

## Specification

**Base:** silane modified polymer

**Color:** grey

**Processing temperature :** + 5°C up to + 35°C

**Material temperature at application:** between + 10°C and + 25°C

**Density :** approx 1.53 g/m<sup>3</sup>

**Crack bridging:** > 380%

**Consistency:** pasty

**Drying time between**

**two coatings (1+2):** approx. 6 hours (+23°C / 50% rel. H)

**Curing time:** approx. 21 hours (+23°C/50% rel. H))

**Consumption:** approx. 1,5 kg per mm thickness, depend on surface

**Dry film thickness:** approx. 1mm

**Maximum coating thickness:** 8 mm

**All technical data are measured in our laboratory.**

Please take notice about the safety information and advice given on the safety data sheets and packaging labels

**GISCODE:** RS10

## Application areas

BKM FK-1K is used for below ground waterproofing of exterior basement walls, foundations, floor plates, etc. according to DIN 18533. The product is suitable for horizontal areas. BKM FK-1K can also be used as an intermediate coating (under cement floors) on floor plates, balconies and terraces as well as for the adhesion of rigid foam insulation boards. The material adheres to all dry, slightly wet, mineral surfaces, as well as bituminous surfaces. Anyway BKM FK-1K can be used on all kinds of detailed waterproofing and roof waterproofing.

## Product application

### Surface preparation

The surface must be mineral, dry or light humid, sound, absorbent and clean. Bonding inhibiting agents such as grease, oil, formwork oil and all loose particles and dust must be removed before application of BKM FK-1K. Damaged area like cracks, holes or cavities have to be reprofiled with BKM HS mortar. Cavities or surface damages >5mm have to be reprofiled with BKM HS mortar. Cracks have to be treated or waterproofed separately by using injection systems. Concrete surfaces maybe require a special treatment before application of the coating by grinding. A primer is recommended but not a must, depend of the surface. A primer increases the bonding to the surface and is additionally a dust binder. On critical surface a trial application is recommended.

### Application

BKM FK-1K can be applied with a roller, trowel or spraying device on the to be sealed and primed surface. The material is ready to use no mixing is required. A material temperature of +10°C up to +25°C is required.

Firstly, a sealing cove must be created with BKM HS Mortar in the connection of floor/wall. A proper processing is very important in the area of joints, flashings and cappings as well as penetrations. The fresh coating must be protected from sun and rain. We recommend an additional sealing with BKM DS-1K Slurry in the area of the wall/floor connection in order to prevent a negative water pressure on the polymer coating during the construction process.

An application of BKM FK-1K in 2 layers is recommended. For below ground waterproofing a consumption of 2.5 – 3,5 kg is required. The quantity can increase because of situation on the site.

In critical areas we recommend to embed our BKM Hydro-Active Fleece, this leads to better technical and mechanical properties of the whole system. Additionally a controlling of thickness is easier.

In case of application on bituminous surfaces (bitumen coating or bitumen membranes) a discolorization can be observed after curing of BKM FK-1K.

The coating has to be protected against damages. Drainage layers and protective layers should be applied after the coating has completely dried. If possible, tools and equipment should be cleaned immediately after use or use solvents to clean already dried residue.

## Comments

### Delivery form

7 kg aluminium bag (2 bags per bucket)  
Article-No. H-001-913

### Storage

6 months  
(frost-free and dry, +5°C up to +25°C in original packaging)

## 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)