BKM PMBC-2K

two component polymer modified bitumen thick coating
technical data sheet

Article-No.: H-001-921

Product description

BKM PMBC-2K is a two component, thixotropic, polystyrene filled and polymer modified bitumen thick coating (PMBC) with high rubber content. The product is solvent-free. The water parts in the emulsion disappears and that leads to a solid substance, which is watertight, highly flexible and crack-bridging after drying. The pasty and stable material enables the application of high thicknesses in one step by spray and trowel application. BKM PMBC-2K cannot be re-emulsified even with longer water contact. In addition, the product is resistant to commonly occurring substances in soils. The waterproofing coating has no joints.

Product advantages

- Two component
- Thixotropic
- Sprayable
- Watertight
- According DIN EN 15814 and 18533
- Solvent-free
- Elastic
- Filled with polystyrene
- Crack-bridging
- Not harmful for groundwater

Specification

Base: bitumen emulsion, polymer, filler, rubber, additives and reaction powder (cement based)
Color: black
Processing temperature : 5°C up to + 30°C
Consistency: pasty
Density: approx 0.75 g/cm³
Thickness: 1 mm wet film thickness = approx. 0.8 mm dry film thickness
Curing time: 2 up to more days, depend of temperature, humidity, thickness and surface
Consumption: approx. 2.0-6.0 l/m2 depend of required protection

Application areas

BKM PMBC-2K is used for positive side below ground waterproofing of buildings according DIN EN 15814 and DIN 18533. It protects underground structures according to DIN 18533 part 3 permanently against W1-E (ground damp and pressure-free water), W3-E (pressure-free water on earth covered ceilings) and W4-E (splash water and ground damp at wall base as well as capillary water in and under walls). The product is suitable for horizontal and vertical areas. The coating can also be used as an intermediate sealing (under cement floors) of floor plates, balconies and terraces. The material adheres on all dry and slightly moist, mineral surfaces as well as on bituminous surfaces.

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 PMBC-2K. 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 surface maybe have to be grinded before application. A primering oft o be treated substrate is always recommended because it leads to a better bonding and is also a dust binder. A primer can be prepered when mixing
BKM PMBC-2K (only component A) 1 : 5 with drinking water. After mixing remove the poystyrene parts on top oft he mixed primer and apply the primer. In case of an old bitumen coating requires a new coating, use BKM BP Bitumen Primer as primer. Trial test to check the bonding are always recommended.

Application

BKM PMBC-2K can be applied with a trowel or spraying device on the primed surface. Before the application re-mix the component A with a slowly rotating mixer. The reaction powder (Component B) must be added portion by portion. Both components are mixed thoroughly with a mixing device (minimum 3 minutes). The material is processable when a homogenous, lump-free mass is obtained. Don't change the mixing ratio (comp. A + comp. B). BKM PMBC-2K cannot be applied under rainy or frosty conditions. In case of rain the surface must be protected.

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 bituminous coating during the construction process.

In case of high water pressure we recommend a reinforcement mesh between the two layers of BKM PMBC-2K. The coating has to be protected against damages. Drainage layers and protec-

tive layers should be applicated 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.

Consumption

WATER INFLUENCE CLASSES

	*MDLT**	*WLT**	*CONSUMPTION*
W1-E	3 mm	3.75 mm	3.75 l/m²

(ground damp and pressure-free water)

W2-E	4 mm	5,00 mm	5,00 l/m²

(moderate exposure of pressing water; Immersion depth >3m)

W3-E	4 mm	5.00 mm	5.00 l/m²

(pressure-free water on earth-covered ceilings)

W4-E	3 mm	3.75 mm	3,.5 l/m²

(splash water and ground damp at wall base as well as capillary water in and under walls)

Scratch coating	1-2 l/m²

The consumption rates shown are minimum values. A separate professional levelling of the substrate, for example by a scratch coating is expected. According to DIN 18533 part 3, a layer thickness addition of at least 25% of the minimum dry layer thickness is to be added.
**MDLT = Minimum dry layer thickness*
**WLT = Wet layer thickness*

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: BBP10

Comments

• The required minimum dry coat thickness must be maintained across the entire working area.
• The required wet coat thickness must not be exceeded by more than 100 % in any one place.
• During work breaks the polymer-modified bitumen coating has to be 'scraped down to nothing' and must not end on/in a corner of the building.
• In accordance with DIN 18533 part 3, BKM PMBC-Reinforcement Mesh is to be embedded.
• The waterproof coating is to be protected in accordance with DIN 18533 part 1.
• Verification of the layer thickness is carried out by measuring the wet layer thickness in accordance with DIN 18533 supplement 2. It has to be carried out according to DIN 18533 part 3 in at least 20 places per project and at least at 20 places per 100 m².
• To test the drying and adhesion of the PMBC applied, the PMBC has to be passed through the 15 cm connection area. In these areas, the drying and adhesion must be tested in a destructive manner. The result of this check must be documented.
• The result of the layer thickness and completed drying tests must be documented in accordance with DIN 18533 part 3 in the form of a protocol report.

Delivery form
30 l bucket
(comp. A = 17.6 kg; comp. B = 4.4 kg
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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