

BKM BRM Concrete repair mortar

Fibre-reinforced dry mortar
technical data sheet

Article-No.: H-103-986-001

5 kg Container

Product description

BKM BRM is a mineral-based, shrinkage-free curing, fast-setting, fiber-reinforced and low-swelling dry mortar on a pure cement basis of mortar class M30 according to DIN EN 998-2. BKM BRM is also suitable for fire protection mortaring. BKM BRM is water-proof, resistant to frost and de-icing salt and has excellent adhesion to absorbent substrates.

Product advantages

- Stable, 100 mm
- DIN EN 998 compliant
- Waterproof
- Plastic fiber reinforced
- Highly loadable
- Fast setting
- Low chromate
- High bond strength
- Resistant to de-icing salts
- Corrosion inhibiting
- Good resistance to acids and alkalis at moderate concentrations
- Sulphate resistant

Specification

Base:	Special cement, additives, plastic fibers
Color:	cement gray
Largest grain:	max. 2 mm
Compressive strength:	1 day 13 N/mm 7 days 42 N/mm 28 days 47 N/mm
Flexural strength:	approx. 6 N/mm
Water absorption:	0.1 kg/m
Processing temperature:	from + 5°C to + 30°C
Processing time:	approx. 30 minutes, depending on temperature
Start of solidification (20°C):	approx. 45 minutes, depending on temperature
Water requirement:	approx. 800ml per 5 kg

All data are laboratory values.

The hazard statements and safety advice on the material safety data sheets and the container labels must be observed.

GISCODE: ZP 1

Application areas

BKM BRM is used as a repair mortar for repairing chipping, leveling defects and damage to concrete structures, masonry and plaster.

Due to the addition of special fibers, BKM BRM can be applied up to 100 mm in one operation. BKM BRM is suitable for use in new construction and renovation of sewers and manholes, balconies and other concrete structures.

Product application

Surface preparation

The substrate must be sound, damp (pre-wet if necessary), solid and clean. Loose constituents, separating agents, formwork oil, grease, gypsum, bitumen and other separating layers reducing adhesion must be removed before applying BKM BRM. The substrate must be matt damp, standing water must be avoided.

Processing

BKM BRM is mixed with clean water (approx. 4 l per 25 kg) in a manner suitable for processing. The water requirement can be slightly adjusted depending on the processing. Pour the mortar into a clean container and add water in portions while stirring slowly until the desired standing consistency is achieved. A mixing time of at least 3 minutes with a suitable stirrer must be observed.

For critical substrates and to achieve higher compressive strengths, mix BKM BRM with BKM UH+ (approx. 25% to the mixing water). For salt-damaged and sanding substrates, a primer of BKM UH+ is recommended.

BKM BRM can be applied up to 100 mm in one operation, but this depends on the previously set mixing viscosity. For large filling depths, apply in layers. For this purpose, a little BKM BRM is thrown on and worked into the matt damp substrate. Each subsequent layer is applied on top of the not fully cured (fresh in fresh) previous layer.

The material must be protected from drying out too quickly (wind, sun) for at least 24 hours. Indoors, the relative humidity should not exceed 65%.

Consumption

approx. 1.7 kg/l cavity

approx. 18kg/m² at 1cm layer thickness (with flat application)

Comments

Packaging unit

5 kg Container

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Recommended tools and work protection

- Trowel
- spatula
- Trowel
- Gloves
- Safety goggles

Storage

6 months

(frost-free and dry, + 5 C to + 25 C in the original container)

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