

BKM MV

PU injection resin for masonry consolidation
technical data sheet

Article-No.: H-001-310 25 kg Metal bucket (A-Comp. 12,5 kg Metal bucket + B-Comp. 12,5 kg Metal bucket)

Product description

BKM MV is a two-component (component A+B), phthalate-free, low-viscosity and hard/force-fit injection resin. The very low viscosity leads to deep penetration into the finest structures of the building structure, where it solidifies the structure. It has a very limited volume increase when reacting with water / moisture. BKM MV is not used in the presence of flowing water.

Product advantages

- To be applied as 1K system
- Two-component (A+B)
- Force-fit, hard injection resin
- Low viscosity
- Phthalate-free
- Dimensionally stable
- Limited foaming
- Very good adhesion to the substrate
- Excellent penetration properties
- Mixing ratio 1:1 by weight
- Alkali-stable
- Does not attack reinforced steel
- Processing with 1C injection equipment

Specification

Base : Polyurethan

Color : A-component : transparent

B-component : dark brown

Processing temperature : from + 5°C to approx. +35°C

Density (mixed material) : approx. 1.07 g/ml (DIN 53 479)

Viscosity (Brookfield) : approx. 160 mPas (+25°C) (EN ISO 3219)

Mixing ratio : 1:1 Weight parts

Processing time : approx. 30 minutes (1 liter at +23°C)

Consumption : depending on cavity occurrence

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: PU40

Product application

Applications

BKM MV is used for strengthening and reinforcing masonry structures, as well as for void filling in buildings/ground structures. Typical applications are, for example, in building repair, tunneling, mining and special civil engineering.

Surface preparation

Before starting the injection work, a structural condition analysis must be carried out on the object to be sealed. The suitable injection material is selected on the basis of the results of the analysis (moisture situation, crack course, crack width, occurrence of cavities, water temperature, etc.). Injection packers are used for component-strengthening surface injection.

The borehole diameter is to be selected depending on the diameter of the injection packers to be used (example: 12 mm packer diameter = 12 mm borehole diameter).

The packers must be firmly mounted using appropriate tools so that they do not come loose even at high injection pressures.

Material

BKM MV is injected via 1C injection equipment (available on request). The respective components A+B are mixed in the specified mixing ratio and then poured into the pressure injection device (material hopper).

Injection is usually carried out under an initial pressure of 3 bar for masonry. Depending on the situation, the injection pressure may increase. The ready-mixed material (A+B) must be injected within the specified working or pot life. BKM MV must be injected until the voids are filled. In addition, change to the next injection packer as soon as material leakage is detected at the adjacent packer, at the component surface or from the joint.

Re-injection within the working time via the same injection packer is recommended. After complete curing of BKM MV, the boreholes are sealed with BKM HS. Depending on the occurrence of cavities, the specified material quantities may change. Changes in temperatures alter the reaction properties of the material.

Work equipment and tools must be cleaned immediately after application with BKM Resin Cleaner. Cured residues can only be removed mechanically.

Comments

Delivery

25 kg Metal bucket Article-No.: H-001-310
(A-Comp. 12,5 kg Metal bucket
+ B-Comp. 12,5 kg Metal bucket)

Storage

6 months
(cool, frost-free and dry, +5°C to +25°C in the original container).

From 24 August 2023, appropriate training must be provided prior to industrial or commercial use.

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