Technical Data Sheet
Issue: 24-09-2015

BITUCOAT 1K FV

Properties:

BITUCOAT 1K FV is a flexible, solvent free, fiber sheathed, one component bituminous surfacing for a secure proofing of structural elements.

BITUCOAT 1K FV is ready for use, easy to apply, sprayable and suitable to application with a spatula.

BITUCOAT 1K FV protects underground structures permanently against ground moisture (capillary water, retained water), non-accumulating seepage water as well as accumulating seepage water.

BITUCOAT 1K FV is used for vertical and horizontal surfaces, at mineral subsurfaces such as lime stone, brick, concrete, aerated concrete, plaster and screed.

Technical data:

Substance data:		
Consistency	pasty	
Colour	brown	
Odour	characteristic	
Spec. density (20°C)	approx. 1.0 g/cm^3	DIN EN ISO 2811-1
pH value (20°C)	approx. 9-11	DIN EN ISO 10523
Dyn. viscosity (20°C)	approx. 200 Pas	DIN EN ISO 2555
Non-volatile-matter content	approx. 62-64 %	DIN EN ISO 3251
Solubility in water	miscible	
Reaction data at 20°C		
Setting time (20°C)	approx. 24 h	
Processing temperature	5 - 30°C	substrate temperature

Processing:

The substrate must be solid and load-bearing, clean, free of oil and grease, it can be dry or moist, however it must be free of dust and other paint residues, as well as free from defective spots, gaping cracks and burrs. Locations dripping wet or standing water are to be avoided. Edges are to be rounded off. Brickwork surfaces must be pointed fully and flush. In case of projecting base slabs, a concave molding with waterproof mortar must be applied.
In case of brickwork made of cast concrete blocks, open joints are to be filled with a suitable installation cement, e.g. *F300*, the shoulders are to be opened up and mortar residues as well as contamination removed.
Lime sandstone masonry must be provided with a joint-smooth screeding in the course of manufacture.
In case of concrete constructions, wall surfaces must be deburred. In addition, reinforcing irons must be removed, recesses compensated, as well as the shoulder wall connection base carefully laid open from soil and building rubble.

In the base/wall area a sealing mass is to be applied. The application is implemented in two work operations to approx. 10 cm over the horizontal brickwork closure and in the same width on the front side of the base plate.

Before the application of *BITUCOAT 1K FV*, the base must be precoated with *BITUCOAT GRUND* (use approx. 50-80 g/m^2).

Alternatively a diluted mixture of *BITUCOAT 1K FV* with 45-50 % of water can be used for priming (consumption 100-150 g/m^2). The priming should mainly strengthen the substrate, bind in the dust and avoid a suction-absorption level which is too high. After drying out of the primer, the coating is implemented.

Application of *BITUCOAT 1K FV* is done in two layers in the required thickness. All areas as well as inner and outer corners must be coating fully. The second layer can be started when the first one is dried far enough not to e damaged any more.
In case of unfavorable working conditions such as very deep temperatures or very high air humidity it must be ensured that the first layer is completely dried, before applying the next layer.

Consumption: 4.5 mm wet coating results in 3 mm of dry coating.

In case of work stoppages, the thick coating must be applied with lessening thickness approaching zero. In case of resumption of work, overlapping layers are applied. Work stoppages must not be implemented at building corners.

Special attention is to be paid that the coating is applied in the necessary thickness and uniformity. The seal is to be applied downwards over foundation base leading edges. Corners and throats are to be rounded up or down.

No corrugated plates or drain mats, which point-load the seal, may be employed for the protection of the seal in soil. We recommend drain stones or drain plates made from styropor expanded polystyrene, which must not be put on or bonded until absolute thorough drying of the insulation material has taken place. *BITUCOAT 1K FV* is also suitable as adhesive.

The seal must be protected against rain, frost, strong exposure to sun and mechanical damage. Furthermore, the seal must not come in contact with loam or clay-content and sharp-edged filling material.

Water acting on the seal rear side is to be kept away from the seal.

Tools and soiled locations must be washed immediately with water. Hardened residues of the thick coating can be removed with white spirit.

Please note that the bitumen thick coating *BITUCOAT 1K FV* may not be employed in the following cases:

- directly on wet brick work (without prior application of sealing slurry), because there exists negative water pressure;
- without protective plates against soil;
- in case of strong and direct solar radiation;
- in case of rain showers or frost.

Safety information:

BITUCOAT 1K FV contains an aqueous bitumen emulsion and is not classified as hazardous according to Regulation (EC) 1272/2008 (CLP). Even in the case of not classified products, the standard precautionary measures applicable for chemical products should be observed.

It is therefore necessary, before beginning processing, to become familiar with the precautions and safety advice as indicated in the material safety data sheet.

Packaging:

30 kg PE round bucket

Bigger packaging on request.

Storage:

Shelf life at least 12 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

Disposal:

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be effected in accordance with the corresponding local regulations. For further information please refer to the material safety data sheets.

Legal notice:

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

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