



BORNIT®-1K **Thick Bitumencoating**

One-component, polystyrene-filled, flexible
Thick Bitumencoating for waterproofing of buildings



Data sheet: 20th January 2006

Product Description

BORNIT®-1K is a one-component, thixotropic Thick Bitumencoating based on a modified bitumen emulsion.

BORNIT®-1K is filled with polystyrene and is solvent-free.

It is flexible and watertight and it covers any cracks in the base.

The product has been tested as per the current valid "Testing Principles for the Issuing of Construction Certification for Bitumen thick coatings" guideline.

General construction certificate number: P-2001-4-433/02

Areas of Application

BORNIT®-1K is excellent for the following uses:

- ⇒ waterproofing as bituminous thick layer for the hydro-insulation of structures against ground dampness and non-pressure and pressure water and for the hydro-insulation of terraces and balconies (under the cement finish) against capillary action dampness and surface water.
- ⇒ for gluing thermal insulation panels, such as protection against noise, heat and cold onto concrete, plaster, masonry and dry construction panels (**not suitable** on polystyrene foam bases!)
- ⇒ for the permanent, flexible and reliable sealing of surfaces

The thick coating can be used universally on all common mineral bases, such as concrete or masonry consisting of cement bricks, lime cement bricks, bricks or perforated blocks, as well as on surfaces with a plaster or cement finish.

Technical Data

Type	1-component Thick Bitumencoating
Base	modified bitumen emulsion
Colour	black
Density	0.68 g /dm ³
Consistency	pasty, stable
Application	trowel or suitable spraying equipment
Resistant to rain	after 8 hours at 20°C
Hardening	3 or more days depending on humidity, temperature and layer thickness
Application temperature	at least +5°C
Storage	it must not freeze!
Storage period	at least 6 months
Maximum layer thickness	up to 7 mm
Cleaning	when fresh using water, after drying using BORNIT®- bitumen stain cleaner
Dangerous substances	none



Application

Surface preparation

The substrate to be sealed has to be solid, clean, sound and even. The surface must be free from voids, large cracks or ridges. Dust, dirt, grease and oil have to be removed.

The base must be absorbent. It may be damp, but not wet.

Unfilled or badly filled openings such as depressions in masonry joints, openings in the mortar or breaks larger than 5 mm must be repaired with a suitable mortar. It is not necessary to apply plaster to fully or well-pointed masonry. Blisters may form as a result of the pores in the base. These sections must be filled using a spatula.

In the case of very porous and highly absorbent bases, it is necessary to apply a flat coat (**BORNIT-Foundation Primer**). Once the flat coat has dried, the base is ready for the application of the required thick layer of the bitumen coating.

Application of thick coating

BORNIT®-1K is delivered ready to use. Application is carried out on the dried bonding primer by using a trowel or a suitable spraying equipment.

Usually, the thick layer is applied in two working operations, because a uniform insulation layer is achieved during the two-layer application. The spreading of the filler over the entire surface using the serrated filling knife or smoothing trowel can represent the first layer. In the case of hydro-insulation against pressure water, two layers must be applied at an overall thickness (when wet) of at least 7 mm (consumption ca. 7 litres/m²).

The fresh layer must be protected from rain and direct sunshine.

BORNIT®-1K may be used at a minimum air and base temperature of +5°C. Insulation panels may be affixed once the **BORNIT®-1K** has completely dried. In principle, it is necessary to protect the bitumen insulation layer. Suitable protective layers consist of polystyrene foam panels, burled films and similar materials.

The filling up of the excavation may be carried out once the insulation layer has completely dried (after 3 or more days according to the climatic conditions).

Consumption

approx. 4 – 7 litres per m² → thickness of wet layer: 4.0 – 7.0 mm
→ thickness of dry layer: 2.8 – 4.9 mm

Storage

BORNIT®-1K must be **protected from frost!** It is necessary to avoid temperatures of over +30°C and direct sunlight.
Shelf life in unopened, original packaging is at least 6 months.

Health and Safety

Do not pour the remains of the product into the sewers. Protect your skin from contact with the substance. For further information please refer to Material Safety Data Sheet.

Note

This data sheet replaces and annuls all previous technical information about the product. The information has been compiled according to the state-of-the-art of application technology. However, please note that deviations from the operation method proposed in this data sheet may be necessary depending on the condition of the construction object. Unless agreed otherwise in individual contracts, all of the information contained in the data sheet is non-binding and therefore does not represent the agreed properties and conditions of the product. We reserve the right to make changes to the information contained in this data sheet at any time. We recommend that you take a look at our website www.bornit.de for information concerning any changes.

Packaging

BORNIT® -1K :
12 litre container 45 containers each pallet
32 litre bucket 18 buckets each pallet