



BORNIT[®]

Joint Tape

flexible, polymer-modified bitumen joint tape, fusible



externally monitored

Technical specification sheet last updated: 6 February 2012

Product Description

BORNIT[®] Joint Tape is a polymer-modified, bituminous joint tape for the flexible formation and permanent sealing of connections and seams in asphalt road construction.

BORNIT[®] Joint Tape is a high-quality, flexible joint tape, which due to its high inherent tack and its good adhesion characteristics is particularly easy to process at low temperatures as well.

At processing temperatures above 20 °C and/or in connection with **BORNIT[®] Easy Primer FB**, the joint tape also adheres very well to the flank surfaces **without flame heating**.

BORNIT[®] Joint Tape is ageing-resistant and resistant to aqueous solutions, salts and diluted acids. **BORNIT[®] Joint Tape** is externally monitored and fulfils the requirements of TL Fug-Stb 01.

Areas of Application

BORNIT[®] Joint Tape is used for new construction and rehabilitation of asphalt road surfaces, like:

- longitudinal connection of parallel lanes
- connection of lateral junctions and attachments
- connection of kerbstones and gutters
- transverse and longitudinal connections (new to old) in utility trench construction
- connection between existing and new cover layer (cold-hot connections)
- connection to roadway installations, like manhole covers, valve and hydrant caps, road inlets

Note: according to ZTV Fug-Stb 01, a tape thickness of 10 mm is recommended.

Technical Data in short

Type	Fusible, bituminous joint tape
Base	Polymer bitumen, aggregates, special additives
Colour	Black
Ash content, DIN 52005	40 %
Softening point (EP RuK), DIN EN 1427	≥115 °C
Elastic resilience	16 %
Cold bending behaviour, DIN 52123	-8 °C
Storage	Cool and dry! Material is insensitive to frost.
Storability	In closed original containers at least 12 months

Substrate

All substrates must be dry, clean, frost-free and free from separating substances (e.g. oils, greases, separating agents). Loose components must be removed, moist flanks must be dried. Upon insertion of mixed materials, it should be observed that the seam flanks have a uniform surface quality and good compaction. Roadway installations must be cleaned. Prior to processing, the joint flanks must be pre-treated in a well covering fashion with a primer - **BORNIT[®] Bitumen Primer** (dry after approx. 30 minutes) or **BORNIT[®] Hot Compound Primer** (dry after approx. 15 minutes) or **BORNIT[®] Easy Primer FB** (dry after approx. 3-5 minutes). Let the primer dry and then attach the joint tape directly after. The use of a primer is specified for producing proper adhesion and seam formation according to ZTV Fug-Stb 01.



Processing with flame heating (hot) For that, spread **BORNIT® Joint Tape**, remove the separating paper and cut to length. Then carefully heat the upper side of the joint tape with a propane gas flame until the surface becomes tacky. Attach the heated joint tape to the joint flank and press it to the contact surface using a flat tool or by hand. At the corner points of a crack, the tape is bluntly cut off using a spade.

Processing with adhesion (cold) At suitable substrate and ambient temperatures (above 20 C°), due to the high inert tack of the joint tape, processing may take place without flame heating. At low temperatures, **BORNIT® Easy Primer FB** must be used as assembly aid. Using the special spraying can with the 3-stage overhead valve, all joint flanks for the connections in asphalt surface construction are primed without any effort and simultaneously provided with an adhesive film (see technical specification sheet). Therewith, the BORNIT® Joint Tape can be adhered to the connection seam without flame heating and without additional tools.

BORNIT® Easy Primer FB adheres well to the respective substrate, is quick-drying (approx. 3-5 minutes) and has an excellent adhesive strength for assembly adhesion of BORNIT® Joint Tape. Following flash-off of the adhesive primer, the tape is simply pressed to the flank with force as described above. The flexible and seamless connection with the hot asphalt to be subsequently inserted takes place by melting of the joint tape in the seam area. According to our experience, the temperature of the asphalt surface to be inserted is sufficient to continuously heat a tape with a width of 10 mm to 120 °C, and thus to provide for a secure connection. The joint tape must be inserted with a protrusion of approx. 5 mm (flush for mastic asphalt) above the roadway level and protected against passing over by construction site traffic. Following introduction of the hot mixed material, the protrusion of the joint tape is rolled smooth. Therewith, a rivet head is formed at the surface, which offers additional sealing and secure closure of the asphalt edge. If the asphalt delivered does not have the required insertion temperature, the joint tape cannot melt completely. Secure sealing of the seam connection is then not guaranteed!

Storage The product can be stored for at least 12 months. Store cool and dry!
Protect boxes against moisture, direct solar irradiation and heat!

Disposal Material residues can be disposed of according to AVV-ASN: 170302 (bitumen mixtures, except for those falling under 170301).

Note This specification sheet replaces any previous technical information about the product. Thus, these are no longer valid. The data was compiled according to the latest state of application technology. Please observe, however, that depending on the condition of the construction object, deviations from the working method suggested in the specification sheet may be required. Unless agreed otherwise in the individual contract, any information contained in the specification sheet shall be non-binding and thus does not represent an agreed product quality. We reserve changes to information contained in this specification sheet anytime. We recommend that you inform yourself about possible changes on our Internet page www.bornit.de.

Packing BORNIT® Joint Tape is delivered rolled up, packaged in boxes. 24 boxes/pallet

Available dimensions:	25 x 8 mm	78 m per box
	30 x 8 mm	73 m per box
	35 x 8 mm	63 m per box
	40 x 8 mm	48 m per box
	30 x 10 mm	63 m per box
	35 x 10 mm	48 m per box
	40 x 10 mm	40 m per box
	45 x 10 mm	40 m per box
	50 x 10 mm	31 m per box

Further dimensions on request.

Note: According to ZTV Fug-StB 01 (Point 5.4., Issue 2001), the width of the joint tape must not undercut 10 mm. The use of joint tapes with a width of 8 mm must therefore be agreed in the specifications, and this deviation from ZTV Fug-StB 01 must be pointed out to the client.