SERVICE-HOTLINE +49 375 2795 123

Hot Sealing TL

Bitumen | Road construction | Hot-pouring compound | Joint sealants N2 | Civil engineering



Short information

- good absorption of movement
- good adhesion to the joint flanks
- insensitive to water and de-icing salts
- According to TL Fug-StB, Type N2

Consumption

- approx. 1.1 kg / litre of joint contents.
- The consumption of BORNIT® Hot Compound Primer amounts to approx. 4 % of the sealing compound quantity.

Storage note

- protect from direct solar irradiation and moisture
- in originally sealed containers storable for 12 months

Complementary products

Priming
- BORNIT® Hot Compound Primer
- BORNIT® Hot Compound Primer Spray

Cleaning
- BORNIT® MultiClean
- BORNIT® MultiClean Spray
- BORNIT® Bitumen Cleaner

Follow-up products
- BORNIT® Sealant Heater
- BORNIT® Pouring Can
- BORNIT® Hot Sealing Tongs
- BORNIT® Hot-Air Lance

Content	Item	EAN code	Colour	sufficient for:
10 kg / box 80 box (800 kg) / one way pallet	6800000334	4 017228 00704 5	black	approx. 9.1 litres of joint contents
Hot Sealing TL (4x5kg) 20,00 kg / bucket 25 bucket (500 kg) / euro pallet	6800000908	4 017228 00945 2	black	approx. 4.54 litres of joint contents
25 kg / box 32 box (800 kg) / euro pallet	6800000335	4 017228 00705 2	black	approx. 22.7 litres of joint contents



Areas of application

BORNIT® Hot Sealing TL is used to seal joints in concrete and asphalt roads, concrete components in building construction and civil engineering, at transitions of asphalt overlays of mastic asphalt or asphalt concrete, resp., and for repairs in asphalt surfaces (e.g. crack repairs).

Product data in brief

Product type	polymer-modified, bituminous sealing compound
Base	bitumen
Solvent	none
Application	with pouring can
colour(s)	black
Consistency	pourable after heating
storage	protect from direct solar irradiation and moisture
Shelf life	in originally sealed containers storable for 12 months
Hazard class according to ADR	none
Cleaning	BORNIT® MultiClean Spray, BORNIT® MultiClean or BORNIT® Bitumen Cleaner
Melting temperature	max. +180 °C
Surface temperature of the joint	min. 0 °C
processing temperature	approx. +160 °C

Type and properties

BORNIT® Hot Sealing TL is based on polymer-modified bitumen, mineral fillers and organic additives. It is a fusible, hot workable sealing compound, characterised by elasticity and extensibility. BORNIT® Hot Sealing TL has a good adhesive capacity at the fusion face as well as a high resistance to heat and cold. The sealing compound is not affected by water and de-icing salt, is water-impermeable and ageing-resistant. From the low density results decreased material consumption in proportion to the filling volume.
Quality according to TL/TP Fug-StB 24 and DIN EN 14 188-1 (joint sealants type N2 - normal).

Advantages

·good absorption of movement
·good adhesion to the joint flanks
·insensitive to water and de-icing salts

Surface

The joints must be dry and clean. Any oil and grease residues as well as loose particles must be removed. The joints must cleaned with compressed air

Processing

Prior to pouring, the fusion faces must be primed with BORNIT® Hot Compound Primer, in order to achieve the required flank adhesion. It is recommended to prime approx. 1 cm of the road surface on both sides of the joint as well, in order to guarantee adhesion up to the upper edge. Prior to starting pouring, the primer must have dried off (finger test). Upon pouring of the product into re-cut asphalt joints or cracks, pre-treatment with a hot-air lance may be sufficient. First, peel off the packaging from the sealing compound. Then slowly heat BORNIT® Hot Sealing TL to the processing temperature in a sealant heater equipped with stirrer, thermostat-controlled burner and thermometer. In that, the maximum fusion temperature of 180 °C must not be exceeded and the sealing compound must be kept moving, in order to avoid local overheating and settling of the fillers. Only melt the anticipated amount needed for the day, since repeated heating could have a negative effect on the material properties. Perform pouring with suitable equipment (e.g. slim pouring cans with an elongated spout, etc.). Stop application when it starts to rain! Since a volume reduction occurs with all sealing compounds after cooling, application should be undertaken in two layers. In that, the second layer is to be applied immediately after cooling of the first one, onto the still shining, clean surface. In that, the processing temperature must not be undercut, in order to guarantee homogenous fusion. In case of concrete traffic areas, BORNIT® Hot Sealing TL must be poured such that a trough-shaped depression of min. 1 mm to max. 6 mm (with chamfered joint edges) is formed beneath the road surface. Protrusions or excessive pouring, resp., must be avoided.

Consumption

approx. 1.1 kg / litre of joint contents.
The consumption of BORNIT® Hot Compound Primer amounts to approx. 4 % of the sealing compound quantity.

Health and fire protection, occupational safety

To ensure safe handling of the product, the physical, safety, toxicological and ecological information provided online, the information in the current safety data sheet and the additional information on the label must be read and followed before purchasing or using the product! The applicable regulations, ordinances and laws must be complied with.

In case of doubt, please contact the BORNIT® application technology department or the BORNIT® service hotline on +49 375 2795 123.

Warning notices

UN-number	No dangerous good in sense of these transport regulations.
Recommended, personal protective equipment:	

CE marking

CE

BORNIT-Werk Aschenborn GmbH
Reichenbacher Straße 117
08056 Zwickau / Germany

2006

1139-1140/2013

DIN EN 14188-1:2004
Hot workable bitumen joint sealant type N2

Adhesive capacity and expansibility at -20 °C	Passed
Adhesive capacity at 0 °C	Passed
Water impermeability	
Adhesive capacity and expansibility at -20 °C,	no adhesive or cohesive failures
Adhesive capacity at 0 °C	
Ball penetration and elastic recovery	<= 60 %
Cone penetration	40 – 100 mm-1
Thermal resistance	
Cone penetration	40 – 100 mm-1
Ball penetration and elastic recovery	<= 60 %
Flow length	<= 3 mm
Resistance against fuel storage	NPD
Compatibility with asphalts	no adhesive failures and no oil exudation

Disposal note

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

Note

This data sheet supersedes all previous technical information relating to the product. Such information is therefore no longer valid. The details have been compiled in accordance with the latest state of the art in application technology. Please note, however, that depending on the condition of the building, it may be necessary to deviate from the working methods recommended in this data sheet. Unless otherwise agreed in an individual contract, all information contained in this data sheet is non-binding and therefore does not constitute an agreed product specification. We reserve the right to make changes to the information contained in this data sheet at any time. We recommend that you check our website www.bornit.de for any updates.

The product illustrations are to be regarded as examples. No legally binding claim can be derived from them. We reserve the right to make changes to the product's appearance.

Our packaging complies with the relevant legal requirements and with Regulation (EU) 2025/40 on packaging and packaging waste (PPWR). The technical documentation in accordance with Annex VII is available and can be provided on request by emailing info@bornit.de.