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Hot Sealing N1

bitumen | road construction | hot sealing compounds | joint compounds - type N1



Short information

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

Consumption

- approx. 1.0 kg / litre of joint contents

Storage note

- protect from direct solar irradiation and moisture
- keep away from ignition sources
- 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	6800000766	4 017228 00752 6	black	approx. 10.0 liter of joint contents
22 kg / box 80 box (1760 kg) / euro pallet	6800000767	4 017228 00666 6	black	approx. 22.0 liter of joint contents

Areas of application

BORNIT® Hot Sealing N1 is used to seal joints in areas of concrete and asphalt surfaces non-traversed by traffic, which absorb high levels of movement, e.g., in the curb area of bridge structures. BORNIT® Hot Sealing N1 is designed for a possible change in the joint gap width of up to 35 %.

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 keep away from ignition sources
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 N1 is a meltable, hot-processable sealing compound based on polymer bitumen, mineral fillers and organic additives.
BORNIT® Hot Sealing N1 provides high elasticity and ductility, good adhesion on the joint flanks and high heat and cold resistance. The sealing compound is impermeable to water, resistant to aging and insensitive to water and de-icing salts. Its low density results in reduced material consumption in relation to the filling volume.
Quality according to DIN EN 14 188-1, joint sealants type N1.

Advantages

·high 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 be blown out with compressed air.

Processing

Prior to pouring, the fusion faces must be primed with BORNIT® Hot Compound Primer or BORNIT® Hot Compound Primer Spray, resp., 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). First, peel off the packaging from the sealing compound. Then slowly heat BORNIT® Hot Sealing N1 to the processing temperature in a sealant heater equipped with stirrer, thermostat-controlled burner and thermometer. In that, the maximum melting 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 (mechanically or manually, e.g., with a slim pouring can with an elongated spout, etc.). Stop application when it starts to rain! Since a volume reduction occurs with all hot 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. For concrete and asphalt traffic areas, BORNIT® Hot Sealing N1 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 in any case.

Consumption

approx. 1.0 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

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2016

6800000532/2016

DIN EN 14188-1:2004
Hot applied sealant type N1

Adhesiveness and extensibility at -25 °C	Passed
Adhesiveness at -20 °C	Passed
Water impermeability	
Adhesiveness and extensibility at -25 °C, Adhesiveness at -20 °C	no adhesive or cohesive failures
Ball penetration and elastic recovery	>= 60 %
Cone penetration	40 – 130 mm-1
Heat resistance	
Ball penetration and elastic recovery	>= 60 %
Thermal resistance	40 – 130 mm-1
Flow length	<= 2 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.