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Hot Sealing Rail

bitumen | road | asphalt road construction | rails | joints



Short information

- polymer-modified bitumen sealing compound
- for filling and sealing joints along railway tracks on road surfaces
- elastic-plastic behavior
- quality compliant with TP/TL Fug StB 24

Consumption

- approx. 1.3 kg/l of joint content
- The consumption of BORNIT® Hot Compound Primer amounts to 4 % of the sealing compound to be applied.

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®-Bitumengießkanne
- BORNIT® Hot-Air Lance

Content	Item	EAN code	Colour	sufficient for:
12 kg / box 64 box (768 kg) / euro pallet	6800000875	4 017228 00927 8	black	approx. 9.2 litres of joint content
27 kg / box 36 box (972 kg) / one way pallet	6800000874	4 017228 00928 5	black	approx. 20.8 litres of joint content







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Areas of application

BORNIT® Hot Sealing Rail is used to create a flexible connection between the track bed and the pavement at rails, as well as for sealing vibration-exposed joints in concrete structures in both building and civil engineering applications at transition constructions. BORNIT® Hot Sealing Rail may be used where the rail has subsided by less than 0.8 mm.

Product data in brief

Product type	bituminous rail sealing compound
Base	polymer-modified bitumen
Density at +20 °C	approx. 1.3 g/cmł
Application	with pouring can
colour(s)	black
Consistency	pourable after heating
Softening point acc. to cone/ring	>+85 °C
storage	protect from direct solar irradiation and moisture
Shelf life	in originally sealed containers storable for 12 months
Melting temperature	max. +180 °C
Tendency for separation	<3.0 % by weight
Dimensional stability in heat (+45 °C, 24 hrs)	<6.5
Cold resistance (falling ball test with 4 balls, 5 m, -20 °C)	3 of 4
Elasticity at -20 °C (0.2 mm/s per 6 minutes)	> 2 mm
Flow length (+60 °C, 5 hours)	<5 mm
processing temperature	approx. +160 - 180 °C

Type and properties

BORNIT® Hot Sealing Rail is based on polymer-modified bitumen as well as mineral and highly elastic special fillers. It is a fusible, hot workable sealing compound, characterised by high elasticity and good vibration resistance.
BORNIT® Hot Sealing Rail has good adhesive properties at the substrate, high heat and cold resistance, and is water-impermeable, ageing-resistant as well as not sensitive to water and de-icing salts.
Quality according to TL FUG StB.

Advantages

·good absorption of movement
·noise reduction

Surface

The joints must be dry and clean. Oil and grease residues as well as loose particles must be removed. Joints must be blown out with compressed air.

Processing

The joints must be dry and clean. Any traces of oil and grease, as well as loose particles, must be removed. Joints must be blown out with compressed air. Before pouring, the joint flanks must be treated with BORNIT® Hot Compound Primer or BORNIT® Hot Compound Primer Fix. Peel the container off the grouting compound and place it in the melting vessel. A maximum melting temperature of +180°C must be observed, and the compound must be kept in motion using a stirrer to prevent localised overheating and settling. Only melt the amount expected to be used that day, as repeated melting can alter the properties. If it starts to rain, stop the grouting process!

Consumption

approx. 1.3 kg/l of joint content
The consumption of BORNIT® Hot Compound Primer amounts to 4 % of the sealing compound to be applied.

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:	

Disposal note

Only recycle empty containers. Material residues can be disposed of in accordance with AVV-ASN: 170302 (bitumen mixtures with the exception of those that come 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.