SERVICE-HOTLINE +49 375 2795 123

Cold Sealing Compound

joint sealant | joint sealing | weather and aging resistant



Short information

- 2-component, polysulfide based jointing material
- for permanently sealing of horizontal concrete and asphalt joints
- for expansion joints up to 35% of the joint width
- can be poured-on, self-levelling
- UV- and fuel resistant

Consumption

- depending on the joint dimension

Storage note

- dry, cool (below +25 °C)
- in originally sealed containers storable for 12 months

Complementary products

Priming
- BORNIT® Concrete Primer
- BORNIT® Asphalt Primer

Cleaning
- BORNIT® PS Cleaner

Follow-up products
- BORNIT® Round Cord
- BORNIT® Cold Joint Sealant

Content	Item	EAN code	Colour	sufficient for:
2,5 l / can 4 can (10 l) / box	6800000494	4 017228 000367	black	depending on joint dimension
2,5 l / can 4 can (10 l) / box	6800000498	4 017228 000305	grey	depending on joint dimension
4 l / can	6800000496	4 017228 000268	black	depending on joint dimension
4 l / can	6800000499	4 017228 000329	grey	depending on joint dimension
10 l / bucket 30 bucket (300 l) / pallet	6800000497	4 017228 000299	black	depending on joint dimension
10 l / bucket 30 bucket (300 l) / pallet	6800000500	4 017228 000312	grey	depending on joint dimension

BORNIT-Werk Aschenborn GmbH | Reichenbacher Straße 117 | 08056 Zwickau
Tel. +49 375 - 2795 - 0 | Fax +49 375 - 2795 - 150 | info@bornit.de | www.bornit.de

Each construction project is different - obtain information before getting started!
Service-Hotline +49 375 2795 123

Areas of application

BORNIT® Cold Sealing Compound is used for sealing horizontal joints in concrete traffic areas and cut asphalt surfaces.
BORNIT® Cold Sealing Compound reliably seals joints against the penetration of water pollutants into the ground. It is particularly suitable for sealing joints in road, bridge and tunnel construction.
BORNIT® Cold Sealing Compound is suitable for sealing floor or ground-level joints between concrete elements as well as concrete components and asphalt surfaces subject to mechanical stresses (vehicle and pedestrian traffic), chemical stresses from de-icing salts and temperature-dependent movements of the components. Upon use in concrete surfaces, BORNIT® Cold Sealing Compound can also be subjected to chemical stresses from fuels. In connection with BORNIT® Concrete or Asphalt Primer, resp., as adhesive primer and with respective structural joint design, horizontal joints of most different construction materials in civil engineering and road construction can be permanently sealed.
BORNIT® Cold Sealing Compound (self-levelling) can be used up to an inclination of the joints of max. 3 %. Joints with a higher inclination or vertical joints should be sealed with the stable BORNIT® Cold Joint Sealant. The joint sealant must not be used for joints, which are permanently under the surface of liquids (e.g. in swimming pools, clarification tanks) or are exposed to strongly oxidising acids and bases, as well as for joints in facilities for storing, filling and transhipping of water pollutants (called LAU plants).

Product data in brief

Base	polysulphide polymer
Density at +20 °C	Component A: approx. 1.60 g/cmł
colour(s)	black, grey
Consistency	pourable, self-levelling
Processing time	at least 2 hours (+23 °C, 50 % humidity)
Thorough hardening time	approx. 24 hours (+23 °C, 50 % humidity)
storage	dry, cool (below +25 °C)
Shelf life	in originally sealed containers storable for 12 months
Hazard class according to ADR	none
Cleaning	BORNIT® PS-Cleaner
Max. admissible deformation	35 % of the joint width
Tensile stress	approx. 0.2 N/mm2
Shore A hardness	approx. 15

Type and properties

BORNIT® Cold Sealing Compound is an elastic two-component, polysulphide-based joint sealant for joints with an expansibility of up to 35 % of the joint width.
It is pourable and self-levelling. In the hardened state, BORNIT® Cold Sealing Compound results in elastic joint sealing with very good resistance to weather impacts and ageing and high mechanical strength.
BORNIT® Cold Sealing Compound complies with DIN EN 14188-2.

Advantages

·very flexible
·waterproof and UV-resistant
·universally applicable
·less equipment, material and labor required for processing

Surface
The joint flanks must be clean, dry, firm, and free of grease and dust. Asphalt flanks must be freshly cut. The joint widths must be matched to the expected movement.

Processing
The bonding surfaces of the joints to be sealed must be cleaned from dirt, dust, greases, oils, bitumen, loose particles, mortar residues and the like. In order to provide the correct depth and to avoid adhesion on three surfaces, the joints are clamped and backfilled with foamed PE-based round material (closed-cell round PE profile) (BORNIT® Round Cord). Should this not be possible, the joint base must be covered with a separating material (PE sheet, silicone paper or the like). The primers must be applied to dry substrate and must flash off prior to application of the sealant.

In concrete joints,
the fusion faces must be primed with BORNIT® Concrete Primer. The components A and B are thoroughly mixed and the primer is evenly applied with a brush. Following a flash-off time of 30 min to 2 hours (depending on the temperature), the sealant can be applied. BORNIT® Concrete Primer should not have completely dried off. If more than 24 hours should have passed, the primer layer must be roughened and new primer applied.

or

In asphalt joints,
the fusion faces must be primed with BORNIT® Asphalt Primer.nThe asphalt joints must be freshly cut, since otherwise adhesion problems occur. The components A and B are thoroughly mixed and the primer is evenly applied with a brush. Following a flash-off time of 2 to 6 hours (component temperature > +25 °C approx. 2 hours, < +10 °C approx. 6 hours), the sealant can be applied. The asphalt primer should have dried off as far as possible. It must be observed that no moisture film has formed on the primer surface due to undercutting of the dew point.
BORNIT® Cold Sealing Compound is packaged separately in various containers. The B component is added to the A component and mixed using a paddle mixer until there are no more colour streaks. In order to avoid the formation of bubbles, it must be observed that no air is mixed into the product.
The joint sealant is inserted into the joint with suitable tools (e.g. manual or compressed-air guns). It is self-levelling. Possibly ascending air bubbles must be removed within the processing time by slight smoothing the surface with a soft flat brush or smoothing stick. The temperature of the sealant prior to mixing should be min. +10 °C. The component temperature must not be below +5 °C and not above +40 °C.
Until reaching the full load-bearing capacity, a thorough hardening time of at least 48 hours at +20 °C of ground and material temperature must be complied with.

Consumption
depending on the joint dimension

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

Component A

H-records	H412: Harmful to aquatic life with long lasting effects.
EUH-records	EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
P-records	P273: Avoid release to the environment. P501: Dispose of contents/container to a suitable recycling or disposal facility.
Recommended, personal protective equipment:	

Component B

UN-number	UN 3082
Signal word	Warning
H-records	H302: Harmful if swallowed. H411: Toxic to aquatic life with long lasting effects.
EUH-records	EUH208: Contains tetramethylthiuram disulphide. May produce an allergic reaction.
P-records	P264: Wash ... thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P273: Avoid release to the environment. P301 + P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell. P330: Rinse mouth. P391: Collect spillage. P501: Dispose of contents/container to a suitable recycling or disposal facility.
Recommended, personal protective equipment:	

CE marking

CE

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

2009

1290-1416/2025

DIN EN 14188-2:2004
System: Two-component (M) / Type: Self-levelling (sl)
Cold workable polysulphide-based joint sealant

Adhesive capacity and expansibility	Tensile modulus at 100 % expansion: at +23 °C >= 0.15 MPa, at -20 °C <= 0.6 MPa
Adhesive capacity	No failure at -20 °C <= 0.6 MPa
Water impermeability	Resilience >= 70 %, Loss in volume <= 5 %
Resistance to deformation	Resilience >= 70 %, Loss in volume <= 5 %
Durability of water impermeability when exposed to chemicals	Passed
Durability of all mandated properties against ageing	Change in the tensile modulus at 100 % expansion: <= ± 20 %
Flame resistance	Passed

Disposal note

Only recycle completely empty containers. Material residues of component A + B can be disposed of according to AVV-ASN: 080409 * (adhesive and sealing compound residues containing organic solvents or other hazardous substances).

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.