SERVICE-HOTLINE +49 375 2795 123

Cold Joint Sealant

joint filler | joint | joint sealing | weather resistance



Short information

- two-component, polysulphide-based joint sealant
- for sealing vertical or inclined joints in concrete traffic areas and cut asphalt surfaces
- permanently elastic
- stable

Consumption

- depending on 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 Sealing Compound

Content	Item	EAN code	Colour	sufficient for:
2,5 l / can 4 can (10 l) / box	6800000501	4 017228 00012 1	grey	approx. 2.5 ltr. of joint dimension
2,5 l / can 4 can (10 l) / box	6800000503	4 017228 00033 6	black	approx. 2.5 ltr. of joint dimension
4 l / can 4 can (16 l) / box	6800000502	4 017228 00007 7	grey	approx. 4.0 ltr. of joint dimension
4 l / can 4 can (16 l) / box	6800000504	4 017228 00034 3	black	approx. 4.0 ltr. of joint dimension



Areas of application

BORNIT® Cold Joint Sealant is used for sealing vertical or inclined joints in concrete traffic areas and cut asphalt surfaces. BORNIT® Cold Joint Sealant reliably seals joints against the penetration of water pollutants into the ground. In particular, it is suitable for sealing joints in road, bridge and tunnel construction as well as in the basement and base area.
BORNIT® Cold Joint Sealant is suitable for sealing floor or ground-level joints between concrete elements as well as concrete components and asphalt surfaces subject 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 Joint Sealant can also be subjected to chemical stresses from fuels.
Horizontal joints with an inclination of less than 3 % should be sealed with the self-levelling BORNIT® Cold Sealing Compound. 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) and for glass sealing.

Product data in brief

Product type	two-component polysulphide-based joint sealant
Density at +20 °C	1.65 g/cmł
Application	spatula, trowel, smoothing trowel, manual or compressed air guns
colour(s)	grey, black
Consistency	stable, spatula-applicable
Processing temperature (ambient and substrate)	+10 °C to +35 °C
Processing time	approx. 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
Cleaning	BORNIT® PS Cleaner
Tensile stress	approx. 0.3 N/mm2
Max. admissible deformation	35 % of the joint width
Shore A hardness	approx. 20

Type and properties

BORNIT® Cold Joint Sealant is an elastic, stable, two-component, polysulphide-based joint sealant for joints with an elasticity of up to 35 % of the joint width. In the hardened state, BORNIT® Cold Joint Sealant results in elastic joint sealing with very good weather and ageing resistance and high mechanical strength. BORNIT® Cold Joint Sealant corresponds to 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 and loose particles. For the correct depth, and in order 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).
Subsequently, for concrete joints, thoroughly mixed BORNIT® Concrete Primer must be uniformly applied to the dry fusion faces. After a flash-off time of 0.5-2 hours (depending on the temperature, the primer should not be completely dry), BORNIT® Cold Joint Sealant can be inserted. The BORNIT® Concrete Primer should not be completely dried off. If more than 24 hours should have passed, the primer layer must be roughened and new primer applied.

Asphalt joints must be primed with BORNIT® Asphalt Primer. The asphalt joints must be freshly cut, since adhesion problems would otherwise result. The components A and B are mixed thoroughly and the primer is uniformly applied with a brush. After 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 introduced. The asphalt primer should have dried 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. For BORNIT® Cold Joint Sealant, the components A and B are both contained in one container in layers and not packaged separately. First mix the components (layers) with a suitable tool (slow-speed drill with mixing paddle stirrer), until there are no colour streaks anymore. Now insert the joint sealant into the joint with suitable tools (e.g. manual or compressed air guns) and smooth it with a spatula, smoothing stick or the like within the processing time. Prior to mixing, the temperature of the sealant 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 min. 48 hours at +20 °C ground and materials temperature must be complied with.

Consumption
depending on 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

UN-number	No dangerous good in sense of these transport regulations.
Hazard-determining components for labelling	TiO2 (Titandioxid)
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	P102: Keep out of reach of children. P103: Read carefully and follow all instructions. 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	No dangerous good in sense of these transport regulations.
Hazard-determining components for labelling	TiO2 (Titandioxid)
H-records	H412: Harmful to aquatic life with long lasting effects.
EUH-records	EUH208: Contains reaction product: bisphenol A epichlorohydrin; epoxy resin (number average molecular weight <= 700); thiram (ISO); tetramethylthiuarm disulphide; bis(dimethyl-thiocarbamoyl) disulphide. May cause allergic reactions. EUH211: Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
P-records	P102: Keep out of reach of children. P273: Avoid release to the environment. P501: Dispose of contents/container to a suitable recycling or disposal facility. P103: Read carefully and follow all instructions.
Recommended, personal protective equipment:	

CE marking

CE

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

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DIN EN 14188-2:2004
System: Two-component (M) / Type: stable (ns)
Cold workable, spatula-applicable 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%, Volume loss <= 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.