SERVICE-HOTLINE +49 375 2795 123

Sheet Metal Adhesive

bitumen | flexible | adhesive and sealing compound | sound-absorbing



Short information

- permanently flexible adhesive and sealant for bonding window skills and wall coverings
- sound-absorbing effect is achieved by the rain drumming noises
- reliably adheres to titanium zinc, copper, aluminum, stainless steel, lead and other building materials
- for all seasons

Consumption

- on even, absorbent substrates approx. 2.0 kg/m2

Storage note

- produkt is not sensitive to frost
- in originally sealed container storable for 12 months
- keep away from sources of ignition!

Complementary products

Priming
- BORNIT® Bitumen Primer
- BORNIT® Bitumen Primer Spray

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

Content	Item	EAN code	Colour	sufficient for:
5 kg / bucket 60 bucket (300 kg) / euro pallet	6800000417	4 017228 00877 6	black	approx. 2.5 m2
10 kg / bucket 45 bucket (450 kg) / euro pallet	6800000418	4 017228 00878 3	black	approx. 5 m2



Areas of application

BORNIT® Sheet Metal Adhesive is used for bonding and sealing of metal profiles and metal sheets, e.g. titanium zinc, copper, aluminium, stainless steel and plump on other building materials.

Product data in brief

Base	bitumen
Density at +20 °C	approx 1.10 g/cmł
Solvent	yes
Application	toothed trowel 4 mm
colour(s)	black
Consistency	paste-like
Thorough hardening time	depending on layer thickness
storage	produkt is not sensitive to frost
Shelf life	in originally sealed container storable for 12 months keep away from sources of ignition!
Cleaning	BORNIT® MultiClean Spray, BORNIT® MultiClean, BORNIT® Bitumen Cleaner
Heat resistance	+150 °C, according to AIB
Diffusion resistance	approx. 10.000
Hazardous class	A II

Type and properties

BORNIT® Sheet Metal Adhesive is a permanently flexible adhesive and sealant for bonding window skills and wall coverings simple and easy. By full-field rich bonding there are no voids. Furthermore, an additional sound-absorbing effect is achieved by the rain drumming noises.

Advantages

·less equipment, material and labor effort
·ready for processing
·cold processing
·one formula for all seasons

Surface

The surface may consist of concrete, masonry, natural or artificial stone, fibre cement, slate and or resin bonded chipboard.
Important: Surface needs to be firm, dry, clean and with no irregularities. On a clean and non-porous or sanded surface you need no primer. Sandy surfaces, such as old cement screeds need to be treated with BORNIT® Bitumen Primer. For surfaces made of lime sandstone you also need BORNIT® Bitumen Primer. Loose and crumbling plaster and levelling should be replaced. In the case of hollow bricks take care of a full-scale edition trough appropriate measures. Even with alkyd, polyester or acrylic resin coated sheets can be bonded with BORNIT® Sheet Metal Adhesive. For all other plastic coated sheets, please check the compatibility of the solvent in the BORNIT® Sheet Metal Adhesive before using. In case of wood as base, make sure that only seasoned, dry wood is used to avoid cross-section changes, which may lead to an uneven adhesive base.
By bonding metal to metal with BORNIT® Sheet Metal Adhesive, it is to be noted that an additional mechanical fixation is performed. BORNIT® Sheet Metal Adhesive needs to be applied all-over and the consumption may not exceed 1.5 kg / m2. The installation instructions must be considered very carefully in this context. Window sills must be sealed airtight to the interior rooms on site, otherwise there is a risk of odour nuisance in the affected interior rooms.

Not suitable surfaces for sheet adhesion with BORNIT® Sheet Metal Adhesive:
·roof sheetings, because the outer layers of the roofing membrane are dissolved by the solvent and bitumen could be flown away. This also applies to other bituminous surfaces.
·Plastic films, such as those used in the roof area, because of a general incompatibility between films and bituminous materials containing solvents, which could damage the film.
·Non-mineral insulating materials such as polystyrene, because solvents could damage them.

Mineral oils and organic solvent must be kept away. Non-bituminous sealants are incompatible to BORIT®-Sheet adhesive, such as silicone-, butyl-, acrylic- and polyurethane sealants. These surfaces are unsuitable for bonding. Due to a possible odour nuisance, BORNIT® Sheet Metal Adhesive is not suitable for indoor use.

Processing

The application is carried out over the entire surface with a 4 mm grooved trowel. By applying BORNIT® Sheet Metal Adhesive in one direction, the air can easily escape when the sheets are laid on. Only in this way a full-surface adhesion without air pockets can be achieved reliably. (see figure 1)

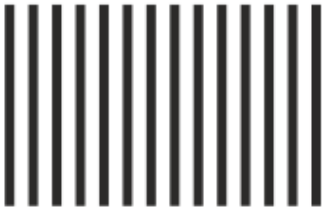


Figure 1

Important: When applying BORNIT® Sheet Metal Adhesive to both components to be bonded, ensure that the grooves run in the same direction in each case. For bonding surfaces of more than 30 cm width, BORNIT® Sheet Metal Adhesive should be applied on both sides (spread the intended amount evenly on both sides!).

Processing temperature

The temperature range for processing BORNIT® Sheet Metal Adhesive is between +5 °C and +30 °C. The material temperature of BORNIT® Sheet Metal Adhesive should not be below +15 °C. Material stored too cold only slowly reaches the required processing temperature and can be carefully tempered in a water bath. If the storage temperature is below 15 °C, ensure that the material temperature of approx. +15 °C is reached before processing. The materials to be bonded by BORNIT® Sheet Metal Adhesive must also have temperatures above +5 °C and should not exceed +40 °C. At temperatures lower than +5 °C, there is a risk of hoarfrost forming on metallic surfaces, which prevents good adhesion.

Installation on horizontal surfaces

In the case of wall, parapet or balustrade coverings consisting of several individual parts, a sub-sheet with a minimum width of 10 cm, corresponding to the sheet metal profile, must be glued under the sheet metal joints to ensure water drainage. In the case of continuous metal profiles longer than 6 m, expansion compensation must be provided for the temperature-related expansion without causing leaks. The sheet spacing for expansion compensation must be selected depending on the processing temperature and the expansion coefficient of the metal. This prevents the sheets from pushing up each other. Mechanical fixation is also required for low slopes.

Adhesive range

The parts to be bonded can be joined immediately after application of BORNIT® Sheet Metal Adhesive, but it must be done within 60 minutes after application at the latest.

Compression

The parts to be bonded must be joined with pressure. For small dimensions it is sufficient to press on firmly by hand. Where possible, it is also sufficient to press slowly and evenly with the foot.

Consumption

On even, absorbent substrates, the consumption is 2.0 kg/m2. Do not apply too much, otherwise at summer temperatures there is the risk that material, that has not been dried yet, will slip off.

Health and fire protection, occupational safety

Caution - Only use in well-ventilated outdoor areas. Not suitable for use in closed rooms or poorly ventilated pits!
Do not eat, drink or smoke while working, keep away from sources of ignition.

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.
Hazard pictograms	
Signal word	Warning
Hazard-determining components for labelling	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics
H-records	H226: Flammable liquid and vapour. H336: May cause drowsiness or dizziness.
EUH-records	EUH066: Repeated exposure may cause skin dryness or cracking.
P-records	P102: Keep out of reach of children. P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P271: Use only outdoors or in a well-ventilated area. P403 + P233: Store in a well-ventilated place. Keep container tightly closed. P501: Dispose of contents/container to a suitable recycling or disposal facility. P280: Wear protective gloves/protective clothing.
Recommended, personal protective equipment:	

Disposal note

Only recycle completely empty containers. Material residues 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.