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Bituminous Emulsion C60BP4-S

bitumen emulsion | repair work | new construction | asphalt



Short information

- extra polymer-modified
- unstable, cationic bituminous emulsion with a binding agent content of approx. 60%
- quality compliant with TL BE-StB 15 section C60BP4-S
- adhesion promoter between bituminous layers

Consumption

- approx. 0.15 kg/m2 to 0.5 kg/m2, according to Table 6 of ZTV Asphalt-StB 26 part 1

Storage note

- sensitive to frost
- in originally sealed containers storable for 4 weeks

Complementary products

Cleaning

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

Content	Item	EAN code	Colour	sufficient for:
190 kg / barrel 2 barrel (380 kg) / barrel pallet	6800000604	4 017228 00741 0	black	approx. 380.0 - 1266.7 m2
1000 kg / IBC tank pallet	6900003289	4 017228 00860 8	black	approx. 2000 - 6666.7 m2



Areas of application

BORNIT® Bitumen Emulsion C60BP4-S is used for gating asphalt surfaces prepared for the subsequent application of asphalt mix. It is used as an adhesion promoter in the layer bond between the asphalt layers. BORNIT® Bitumen Emulsion C60BP4-S is used between all asphalt courses and layers to ensure compliance with the required interlayer bond.

The recommendations for achieving the required interlayer bond in asphalt road pavement structures (HSVA) shall be observed.

Product data in brief

Product type	cationic bitumen emulsion
Base	polymer-modified bitumen, water
Density at +20 °C	approx. 1.10 g/cmł
Application	with spraying equipment of company “Maus”, ramp spraying equipment or the like
colour(s)	black
Consistency	liquid, homogeneous
storage	sensitive to frost
Shelf life	in originally sealed containers storable for 4 weeks
GISCODE	BBP10
Hazard class according to ADR	keine
Cleaning	BORNIT® MultiClean Spray, BORNIT® MultiClean or BORNIT® Bitumen Cleaner
Boiling start and Boiling range	+100 °C
Type of charge	cationic
Stability	unstable

Type and properties

BORNIT® Bitumen Emulsion C60BP4-S is a special polymer-modified bitumen emulsion with excellent adhesivity and adhesion on dry and also on slightly moist substrates.
BORNIT® Bitumen Emulsion C60BP4-S corresponds to TL BE-StB 15.

Processing

Prior to application of the emulsion, the substrate must be cleaned very thoroughly, since only limited dust penetration is given. Prior to processing, briefly homogenise the product (briefly recirculate it, stir it up or roll the barrel). For better processing, the emulsion must be heated to +40 °C – +60 °C. Heating must be slow and uniform. Local overheating results in thermal damaging of the product.

Upon processing using Maus spraying equipment, the heated emulsion must be processed immediately in order to avoid local overheating.

Apply the bitumen emulsion onto the entire surface of the intensively cleaned area in a uniform manner with the respectively specified quantity using binder spraying equipment (Maus spraying equipment, ramp spraying equipment and the like). Only start applying the asphalt mixture once the emulsion has completely broken down and the emulsion water has completely evaporated. The sprayed surfaces must be blocked off for traffic.

Filling, storage and substrate temperatures: min. +5 °C
Processing temperature: min. +50 °C – max. +80 °C

The pipe systems of the transport and processing vehicles have to be discharged, if applicable, following completion of work. Longer transport of the emulsion must be undertaken with full tanks. In order to avoid foaming of the product, bottom-up filling is to be used for filling or refilling.

If spraying equipment is used for processing, then it must be cleaned immediately after completion of work in order to avoid clogging of nozzles and pipes with bitumen.

For cleaning, please observe the respective regulations of the spraying equipment manufacturer.
BORNIT® Bitumen Emulsion C60BP4-S must not be mixed with bitumen emulsions with other designations or from other manufacturers.

Consumption
approx. 0.15 kg/m2 to 0.5 kg/m2, according to Table 6 of ZTV Asphalt-StB 26 part 1

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.

CE marking

CE

0988

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EN 13808: 2013
Cationic Bituminous Emulsion C60BP4-S
for producing bonded layers

Viscosity	15-70 s (3)
Adhesive behaviour	> 75 % (2)
Breaking-down behaviour	110-195 (4)
Hazardous substances	NPD
DETERMINATION AT THE RECOVERED BINDER:	
Consistency at average temperature of use Needle penetration at +25 °C	<=100x0,1mm (3)
Consistency at increased temperature of use Softening point, ring and ball method	> 50°C (4)
DETERMINATION OF DURABILITY Phase 1 – AT THE STABILISED AND BINDER:	>=1J/cm2(5°C)(4)
Consistency at average temperature of use Needle penetration at +25 °C	DS (0,1mm) (1)
Consistency at increased temperature of use Softening point, ring and ball method	DS (0,1mm) (1)
DETERMINATION OF DURABILITY Phase 2 – AT THE STABILISED AND BINDER:	DS (°C) (1)

Consistency at average temperature of use	DS (0,1mm) (1)
Needle penetration at +25 °C	
Consistency at increased temperature of use	DS (°C) (1)
Softening point, ring and ball method	
DETERMINATION OF DURABILITY Phase 2 – AT THE STABILISED AND AGED BINDER:	
Consistency at average temperature of use	DS (0,1mm) (1)
Needle penetration at 25 °C	
Consistency at increased temperature of use	DS (°C) (1)
Softening point, ring and ball method	
Force ductility	DS(J/cm2)(1)

Disposal note

Only recycle completely empty containers. Material residues can be disposed of according to AVV-ASN: 080410 (waste adhesives and sealants, except for those falling under 080409).

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.