Asphalt Adhesive C40BF5-S

Cationic bitumen adhesive

Technical datasheet last updated: 29 May 2018

Areas of application
BORNIT® Asphalt Adhesive C40BF5-S is used for spraying on soiled, aged or milled asphalt surfaces, which are prepared for the subsequent application of asphalt mix. It serves as a bonding agent for producing composite layers in asphalt construction. BORNIT® Asphalt Adhesive C40BF5-S adheres well to all asphalt substrates.
BORNIT® Asphalt Adhesive C40BF5-S is used for load classes Bk1,0 and Bk0,3.

Type and properties
BORNIT® Asphalt Adhesive C40BF5-S is a special cationic bitumen emulsion with high wettability. Excellent adhesion on bituminous substrates is achieved through a small portion of fluxing agent. Due to its low viscosity, the product is finely sprayable in the cold state, too.

Substrate
Make sure that the substrate is firm, not wet and free from separating agents. Standing water must be removed.

Processing
Immediate processing after delivery is recommended.

Filling, storage and substrate temperature: min. 5 °C
Processing temperature: min. 20 °C – max. 50 °C

The line systems of transport and processing vehicles must be emptied following completion of work, if applicable. Longer transportation of the emulsion must be undertaken in full tanks. In order to avoid foaming of the product, filling or re-filling must be undertaken using bottom-up filling.
Spraying equipment used for application must be cleaned immediately after use in order to avoid clogging of nozzles and pipelines with bitumen. Such cleaning must be undertaken according to the provisions of the manufacturer of the spraying equipment. Do not mix BORNIT® Asphalt Adhesive C40BF5-S with bitumen emulsions of other designations and other manufacturers.

Consumption
Approx. 0.2 to 0.45 kg/m²; according to Table 8 of ZTV Asphalt-StB 07 (German Standard governing the paving of traffic areas with asphalt)

Product data in brief

Type	Bitumen adhesive
Base	Road pavement bitumen
Solvent	Water
Colour	Brown
Type of charge	Cationic
Density at 20 °C	0.98 g/cm³
Sieve residue	max. 0.5 %
Binder content	38-42 %
Consistency	Liquid, homogeneous
Application	Hand-operated spraying machine, ramp sprayer or the like
Processing temperature	Not below +5 °C – sensitive to frost!
Storage	Protect from frost!
Storability	In originally sealed containers 4 weeks
Cleaning	Immediately with water, in the fully hardened state with BORNIT® Bitumen Cleaner
Substances hazardous to health in terms of the ordinance on hazardous materials	none
Hazard class according to VbF and ADR	-
GISBAU product code	BBP 10

Storage
The product can be stored for 4 weeks. Prior to use or filling, briefly recirculate the adhesive. Suitable pumps are, e.g., channel impellers. Upon direct spraying from barrels, these should be rolled beforehand. **BORNIT® Asphalt Adhesive C40BF5-S is not frost-resistant!**

Health and fire protection, occupational safety
Please retrieve information regarding handling, safety and ecology from the current safety datasheet.

Forms of delivery
30 kg canister
190 kg barrel
1,000 kg tank pallet (IBC)
Bulk ex factory

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

CE marking

CE	
0988 2015 6900002540/2018	
EN 13808: 2013 Cationic bitumen emulsion C40BF5-S for producing composite layers	
Viscosity	≤ 20 s (2)
Adhesivity	≥ 75 % (2)
Breaking behaviour	> 170 (5)
Hazardous substances	NPD
DETERMINATION ON RECOVERED BINDER:	
Consistency at medium usage temperature Needle penetration at 25 °C	≤ 220 x 0.1 mm (5)
Consistency at increased usage temperature Ring-and-ball softening point	≥ 35 °C (8)
DETERMINATION OF DURABILITY Phase 1 – ON STABILISED BINDER:	
Consistency at medium usage temperature Needle penetration at 25 °C	DS (0.1 mm) (1)
Consistency at increased usage temperature Ring-and-ball softening point	DS (°C) (1)
DETERMINATION OF DURABILITY Phase 2 – ON STABILISED AND AGED BINDER:	
Consistency at medium usage temperature Needle penetration at 25 °C	DS (0.1 mm) (1)
Consistency at increased usage temperature Ring-and-ball softening point	DS (°C) (1)

Note

This datasheet replaces any previous technical information about the product. Thus, this information is no longer valid. The details have been compiled according to the latest state of application technology. Please observe, however, that, depending on the state of the construction object, deviations from the method of application suggested in the datasheet may be required. Unless agreed otherwise in individual contracts, any information contained in the datasheet shall be non-binding and thus does not represent an agreed product constitution. We reserve the right to any changes in the information contained in this datasheet anytime. We recommend informing yourself about possible changes on our Internet page www.bornit.de.