

BIGUMA®-BAB 20 EL



Polymer modified bitumen based rail sealing compound
in accordance with TL Fug-StB

Use

BIGUMA®- BAB 20 EL is a rail sealing compound for the filling of joints between rails and adjoining surfaces as paving, concrete or asphalt. Due to its more elastic material properties, the joint compound is particularly suitable for rail joints where increased mechanical effects are to be expected due to the design or boundary conditions.

Properties

BIGUMA®- BAB 20 EL fulfils the requirements of TL Fug-StB and distinguish itself by the following characteristics:

- plastic elastic set, therefore optimum balance between high movement accommodation and stress relief within the joint
- good application characteristics at heat and at cold
- good bonding at rail and adjoining surfaces
- high ageing resistance of the joint

Application instructions

BIGUMA®- BAB 20 EL corresponds to a rail joint compound according to TL Fug-StB. Therefore, the specifications of the ZTV Fug-StB apply with regard to the processing instructions as well as the application limits of the grout. Special planning and design measures may be necessary in areas where very large rail head deflections are to be expected.

a) Melting the joint sealant

BIGUMA®- BAB 20 EL has to be heated carefully to the application temperature of 160 - 180 °C in a boiler equipped with mechanical agitation, indirect heating and thermometer. The temperature of the sealant must be thermostatically regulated; it must be controllable at all times. Overheating of the sealant should necessarily be avoided, as this will damage the polymers, which were added for the improvement of the product, and consequently it will lead to a loss of the guaranteed properties.

b) Requirements to the subsoil

The rail joints to be sealed should be thoroughly blown with high-pressure-air or cleaned with a brushing machine, whereas you have to pay attention to special separation of cleaning and application works. For artificial dry-out or pre-heating of the joints, hot compressed air lances can be used. The rail flanks have to be prepared by removing loose rust particles with the help of sand blasting or equivalent. For BIGUMA®- BAB 20 EL the primer COLZUMIX®- Haftgrund has to be used, which is adapted to this material. The function of the primer is to bind the dust and to form an adhesive layer, which will fuse with the sealant being filled into the joints. At the same time the primer also forms a rust protection for the pretreated rail. The primer must cover the joint flanks completely by forming a film. Before filling the joints the applied primer must have dried, i. e. the surface must be touch-dry.

Central Sales

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Producer

Plant Dortmund

c) Filling of the joints

The joint sealant can be applied by can or mechanical by the help of an application lance. The joint sealant must have reached the indicated application temperature during pouring work. If the pouring temperature is clearly below the stated temperature, the flow ability of the sealant suffers. The joint sealants may possibly not fill the to be poured joints completely. There is the danger that voids may occur which later can result in sinking of the sealant under rolling traffic. To prevent a sinking of the rail joint compound the cell filling has always to be stable. The cooling of the sealant may cause shrinkage dependent on the joint dimensions; a second pouring can be necessary. This second pouring should be made immediately after the first one. The joint sealant has to be built-in at least 3 mm deeper of the upper edge of the head of the rail.

Weather conditions

The pre-treated joints are only allowed to be sealed at dry weather conditions and at a surface temperature of the building part of 0 °C.

Material consumption

BIGUMA®- BAB 20 EL: $\text{joint length (cm)} \times \text{joint width (cm)} \times \text{joint depth (cm)} \times \text{specific gravity of the sealant (g/cm}^3\text{)} = \text{consumption (g)}$

Primer: The consumption of the primer (COLZUMIX®- Haftgrund) is approx. 3 % of the sealant amount needed

Storage

The product has to be stored cold and dry and is storable for at least 24 months.

Form of supply

Carton: 25 kg, 10 kg

Cleaning agent

Equipment: BIGUMA®- SWS, benzines or common solvents

At skin contact: hand washing paste

Jointly applicable regulations

At the production or the filling of the joints you have to follow among others the following regulations:

- ZTV Fug-StB
- Data sheet for the execution of traffic surfaces in track areas of tramways

Technical data

Application temperature: approx. 160 - 180 °C

Density: approx. 1.15 g/cm³

Primer: COLZUMIX®- Haftgrund

This product information corresponds to our latest available information. The processor is obliged to test the suitability and application options for the intended purpose. We shall be pleased to advise if you have any questions about our product. Our Terms and Conditions of Business apply, which can be found at www.dga.de.

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