

BIGUMA[®]-Connect



Polymer-modified joint sealant containing bitumen according to TL Fug-StB and DIN EN 14188-1, Type N2



Use

The joint sealant is suitable for filling joints on traffic areas made from concrete and asphalt.

Properties

BIGUMA[®]- Connect fulfils the requirements of the 'Technical Terms of Supply for Joint Fillers in Traffic Areas' (TL Fug-StB) as well as those of DIN EN 14188-1, Type N2.

Furthermore, BIGUMA[®]- Connect has successfully passed performance testing by the Federal Institute for Materials Research and Testing (BAM).

While conventional joint sealants require a primer, BIGUMA[®]-Connect can be filled without such a primer. A proper joint cleaning according to ZTV Fug-StB is sufficient. BIGUMA[®]- Connect or the joints established with joint sealant are also distinguished by the following characteristics:

- designed for a potential change in the joint gap width of up to 25 %
- very good adhesion to mineral substrates even without primer
- very good usage properties in heat and cold
- high degree of aging resistance
- resistant to aqueous solutions, dales, diluted acids etc.

Processing information

a) Melting the joint sealant

BIGUMA[®]- Connect is to be melted with a mechanical agitator, indirect heating and melting pot equipped with thermostat gently to a processing temperature from 160 to 180 °C. The temperature of the joint sealant must be regulated thermostatically; it should always be controllable. A thermal overload of the joint sealant must be strictly avoided, as this will result in direct damage to the polymers added for tempering and consequently a loss of the assured properties. To ensure the assured properties of the joint sealant, an unmixed processing is necessary. A multiple melting of the unmixed joint sealant, with observance of the maximum processing temperatures, is possible.

b) Requirements for the substrate

The joint flanks must be clean, free of dust and generally free of any substances with separating effect, in order to ensure an intensive joint with the concrete or asphalt.

The joint gap (chamber section) in concrete traffic areas must be established as late as possible (min. 14 days) after the kerb section. The concrete moisture of the joint sealant must be below 4 %.

The temperature (measured at the component!) must not be below +5 °C or above +40 °C. The surface temperature of the components in the joint area must be at least 3 K above the dew point temperature when applying the joint sealant.

If required, the concrete or asphalt joints must be blown out clean with oil-free compressed air or cleaned with a brushing machine, whereby a clear spatial division between cleaning and pouring work is to be observed.

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Producer

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Other construction activities that can contaminate the joint flank with dirt should be carried out after the pouring work. Hot-air devices working with pressure are to be used for artificial drying or heating of the filling space, if necessary.

Thanks to its ingredients, BIGUMA®- Connect is able to establish a permanent joint at mineral contact surfaces, even without the use of primers. If the use of a primer is specified, e.g. by the client, COLZUMIX® adhesive primer can be used. Compatibility with BIGUMA®- Connect is ensured.

c) Filling the joints

The joint sealant must be applied directly after cleaning the joints. BIGUMA®- Connect can be applied mechanically using a pouring lance or with a pot. The joint sealant must exhibit the processing temperature indicated during processing. If the temperature is exceeded too greatly, the fluidity will deteriorate. This may result in the joint sealant no longer completely filling out the joints to be sealed. There is a risk of cavity formation, which can later result in a sagging of the joint filling when subject to traffic loads. In case of concrete joints, a suitable priming filler must be applied before applying BIGUMA®- Connect. The height level of the joint sealant in the joint is regulated by a priming filler. The priming filler must be applied so that it covers the entire surface of the joint base.

At the same time, the sealant must be prevented from escaping into potential cavities and a three-flank adhesion avoided. A three-flank adhesion can lead to a tension-induced failure of the joint sealant and must therefore be avoided in all cases.

Cooling of the joint sealant after pouring can entail a considerable volume reduction of the joint sealant, depending on the dimensions of the joint filling space. A second work step may be necessary as a result. We recommend joining the following layer immediately after the first pouring. The sealant is to be poured from concrete flush underneath on traffic areas.

Weathering

The treated joints may only be poured during dry weather and at a surface temperature of the component above 5 °C.

Material consumption

BIGUMA®- Connect: $\text{Joint length (m) x joint width (mm) x joint depth (mm) x density of joint sealant (g/cm}^3\text{) = consumption in grams.}$

Optional primer: The requirement for primer (COLZUMIX® adhesive primer) is approx. 3 % of the joint sealant to be applied.

Storage

The product has a useful life of at least 24 months when stored in a cool and dry place.

Supply form

Carton: 25 kg, 10 kg

Metal container: 28 kg

Cleaning agents

Equipment: Benzines or common solvents

In case of skin contact: Hand cleansing paste

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Jointly applicable regulations

When creating or filling joints with BIGUMA®- Connect, the following regulations must be strictly observed:

- DIN EN 14188-1, Type N2
- ZTV/TL/TP Fug-StB
- ZTV/TL/TP Beton-StB
- ZTV BEA-StB

Technical data

Processing temperature: approx. 160 - 180 °C

Density: approx. 1.1 g/cm³

Particular climatic conditions

If using BIGUMA®- Connect in climate zones that deviate from the application limits of ZTV Fug-StB, the processor shall work at his own risk. In these cases, the suitability must be tested in the individual application. Irrespective of this, the use of COLZUMIX® adhesive primer is recommended for such cases.

Safety information

Please observe the safety data sheet, this contains important information on the handling, transport and storage of BIGUMA®- Connect.

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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