



Bituminous hot joint sealant for joint fillings in sloped surfaces

Uses

BIGUMA[®]- K is mainly used to fill joints in sloped surfaces where „normal“ sealant cannot be used because of its flow tendency. BIGUMA[®]- K can be used for joints in concrete, plaster and asphalt surfaces.

Properties

BIGUMA[®]- K is a highly modified, stable joint sealant with a low flow tendency and low processing temperature, an extremely high level of flexibility and outstanding cold resistance. If the specified processing temperature is observed, joints with an incline of up to 100 % can be sealed without any problem. The joint sealant meets the requirements of „Technical delivery conditions for joint fillers in traffic surfaces“ (TL Fug-StB) and DIN EN 14188-1, type N2.

Processing information

a) Melting

BIGUMA[®]- K is to be gently melted to the processing temperature of approximately 150 °C in a melting boiler equipped with mechanical agitator, indirect heating and thermostat. 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.

b) Requirements for the substrate

If required, the concrete or asphalt must be blown out clean with compressed air or cleaned with a brushing machine, whereby a spatial division between cleaning and pouring work is to be observed. Hot-air devices working with pressure are to be used for artificial drying or heating of the filling space, if necessary. COLZUMIX[®]- Haftgrund, a primer especially adapted to this material, must be used with BIGUMA[®]- K. The primer binds the dust adhering to concrete or asphalt and forms a bonding layer that will later combine with the applied joint sealant. The primer must form a film completely covering the flanks of the filling space. It is advisable to apply a strip measuring approx. 1 cm in width on the road surface on each side of the joint. The applied primer must be dry, i.e. the primed surfaces must not smear when touched with a finger, before the joint sealant is applied. The primed joint must be dust-free and dry to ensure an intensive bond with the concrete or asphalt.

c) Filling the joints

BIGUMA[®]- K can be applied with a sealing lance or a pouring can. 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 result in a sagging of the joint filling. A suitable priming filler must be introduced for concrete joints before BIGUMA[®]- K is applied. 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. 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 flush underneath.

Central Sales

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Producer

Plant Dortmund

Weather conditions

The treated joints may only be poured during dry weather and at a surface temperature of the component above 0 °C.

Material consumption

BIGUMA®- K: Joint length (m) x joint width (mm) x joint depth (mm) x density of joint sealant (g/cm³) = consumption in grams.

Primer: The requirement for primer (COLZUMIX®- Haftgrund) 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.

Form of supply

Carton: 10 kg

Cleaning agent

Equipment: BIGUMA®- SWS, benzines or commonly used solvents

In case of skin contact: Hand cleansing paste

Authoritative specifications

When creating or filling joints, applicable regulations must be observed, including:

- DIN EN 14188-1, type N2
- ZTV Fug-StB
- ZTV Beton-StB
- ZTV BEA-StB

Technical data

Processing temperature: approx. 150 °C

Density: approx. 1.12 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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