

BIGUMA®

-Microtrenching-SE 30



Polymer modified bituminous crack sealant for closing cracks and cutting chambers in asphalt pavements in the MT-procedure

Use

BIGUMA®- Microtrenching-SE 30 is a polymer modified cutting chamber filling compound, which has been especially designed for sealing chambers of 8-30 mm in asphalt top coatings in the Microtrenching procedure (MT-procedure). It can also be used for repairing damaged seams, connections and gaping cracks. The special polymer combination of BIGUMA®- Microtrenching-SE 30 combines, in combination with inorganic as well as organic additives, the requirements to a high stability as well as sufficient movement accommodation in the filled cutting chamber. BIGUMA®- Microtrenching-SE 30 enables equally to drive and walk on the cutting chambers and to permanently accommodate the weather related movements of the asphalt.

Properties

BIGUMA®- Microtrenching-SE 30 or the cutting chamber filled with the compound distinguishes itself by the following characteristics:

- stable under insolation
- does not stick to the tires when rolled by traffic
- high ageing resistance
- resistant against aqueous solvents, salts, thinned acids and similar

Processing information

a) Melting of the crack sealant

BIGUMA®- Microtrenching-SE 30 has to be heated carefully to the application temperature of 165-185 °C in a heater equipped with mechanical agitation, indirect heating and thermometer. The temperature of the crack sealant must be thermostatically regulated; it must be controllable at all times.

Overheating of the Microtrenching-compound has to be avoided as this may damage the polymers, which were added for the improvement of the product, and consequently it may lead to a loss of the guaranteed properties.

b) Requirements to the substrate/preparation

The existing cutting chambers / cracks are widened by a milling machine or by a joint cutter. The depth of the resulting filling space should be about 1.5 times of the resulting cutting width. The widened, cut chambers have to be cleaned thoroughly afterwards and if necessary dried. This can be done with the help of compressed air, with a brushing machine or with a special hot air lance. It is always important to ensure a spatial separation between cleaning and sealing. It is important for the renovation of the cutting chamber / the crack that any foreign bodies and loose parts are removed from the crack. It is recommended to use COLZUMIX®- Haftgrund as primer. When using BIGUMA®- Microtrenching-SE 30 as part of a Microtrenching application, the following has also to be taken into consideration: Depending on the used system, the cutting chamber between the level in which the cables have been laid and the top layer has to be filled reasonable.

Central Sales

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Producer

Plant Dortmund

The material selection and the method in which the layers are built, differ depending on the system used. However, it is indispensable that a sufficient compression of the embedded material takes place and the filling of the cutting chamber happens promptly to avoid damage to the existing pavement.

c) Filling the chambers

BIGUMA®- Microtrenching-SE 30 can be applied by can, screed box or mechanically with the help of an application lance. The mass has to have the specified temperature during the application. If the application temperature is too low, the flowability suffers. Under certain circumstances, the crack sealant will no longer fill the joints to be sealed completely. There is the danger of cavity formation, which may subsequently result in a sagging of the joint filling under rolling traffic. For an optimum result it is recommended to fill the crack from the bottom with the help of a sealing lance. The cutting chamber or the crack should be covered overlapping on both sides with a thin layer (max. thickness of 3 mm) of BIGUMA®- Microtrenching-SE 30. This overlap ensures the protection of the crack and prevents stripping of the crack sealing from the crack flanks. To ensure the grip and optical adjustment to the existing surface, pre-bituminized chippings of the grading 1/3 mm will be directly spread and pressed on the still hot Microtrenching-compound right after the pouring.

Weather conditions

The prepared cutting chambers/cracks are only allowed to be sealed in dry weather conditions and at a surface temperature of above 0°C.

Material consumption

Consumption of crack sealant: length (m) x width of screed box (mm) x height scraper (mm) x density of MT-compound (g/cm³) + additional amount for filling the cracks depending on depth and width of the chamber = consumption in gram

Primer: approx. 3 % of the crack sealant to be applied

Storage

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

Form of supply

Carton: 11 kg, 80 cartons per pallet

Cleaning agents

Equipment: BIGUMA®- SWS, petrol or commercial solvents

In case of skin contact: Hand cleansing paste

Application areas

Width of cutting chamber:	min. 8 mm	max. 30 mm
Depth of cutting chamber:	min. 15 mm	max. 45 mm

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Technical data

Application temperature:	approx. 165 - 185°C
Density:	approx. 1.28 g/cm ³
Primer:	if necessary, COLZUMIX®- Haftgrund
Expansion and adhesion properties (DIN EN 13880-13, at -10°C):	> 5 mm (expansion) < 0.35 N/mm ² (max. force absorption)

This product information corresponds to our latest available information. The indicated values are average values under normal conditions. 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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