



Bituminous, hot-applied crack repair sealant

## Uses

BIGUMA<sup>®</sup>- RSH is a joint sealant especially designed for crack filling, seam sealing in all concrete and asphalt pavements. BIGUMA<sup>®</sup>- RSH is also suitable for joint sealing in all concrete and asphalt pavements particularly in hot climates.

## Properties

BIGUMA<sup>®</sup>-RSH fulfils the requirements of "the Technical Delivery Conditions for bituminous joint sealants" (TL Fug-StB) for „crack sealants“.

BIGUMA<sup>®</sup>- RSH or the produced joints distinguish itself by the following characteristics:

- good bonding at bituminous and mineral subsoil
- stable at solar radiation
- doesn't stick to tyres at rolling
- good application characteristics in hot conditions
- high ageing resistance of the joint
- resistant against aqueous solutions, salts and thinned acids, or similar

## Application instructions

### a) Melting

BIGUMA<sup>®</sup>- RSH must 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 and controlled at all times. Overheating of the sealant should 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 existing cracks have either to be blown under high pressure with hot air lance (crack – covering - procedure) or milled before (milling - sealing - procedure). For the repair it is important that all possibly existing foreign bodies and loose parts will be removed from the crack area. Through the hot air lance the asphalt of the crack flanks will be warmed and consequently the bitumen activated. The application of a primer is not necessary when using this method. If necessary, the primer COLZUMIX<sup>®</sup>- Haftgrund, which is especially adapted to this material, has to be used for BIGUMA<sup>®</sup>- RSH.

### c) Filling of the cracks

Normally the sealant will be applied to the cracks by means of a scraper. According to the crack dimensions different widths of scraper will be used. The sealant is thin at the above stated application temperature. It runs into the crack where it combines itself with the warmed bitumen, while a part of the sealant stays on the surface and covers the outer area of the crack. This overlapping achieves protection to the area around the crack and prevents future bond failure at the crack flanks. The application thickness of crack sealing is between 2 and 3 mm. For anti-skid improvement and for visual appearance of the final layer, dry fine gravel (1/3 mm) with bituminous coating should be spread and pressed on the hot sealant.

## Central Sales

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**Producer**

Plant Dortmund

Chart: Hints for the choice of different procedures for the sealing of cracks or damaged seams

Crack/ damaged seam	Damage	Procedure	
	width	crack - covering - procedure (oversealbanding)	milling - sealing - procedure
slight opened	< 2 mm	+	+
slight until clear opened	2 mm up to 25 mm	-	+
with asset erosion and adjoining cracks	> 25 mm	-	-

### Weather conditions

The prepared 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®- RSH: crack length (cm) x width of the slider (cm) x height of the scraper (cm) x density of the crack sealant (g/cm<sup>3</sup>) + addition for the filing of the cracks depending on the depth and the width of the cracks = consumption in gram

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

The crack sealant will be filed into thin metal tins (hobbocks) and transported on non-returnable pallets. A separation agent coating and the welted type of the hobbocks guarantee a fast, problem-free and safe removal of the mass out of the tin. The removed blocks can be filed into the heater together with the probably still adherent separation agent coating. Alternatively the crack sealant is available in siliconecoated cartons.

Thin metal tin: 35 kg, 12 kg

Carton: 30 kg, 12 kg

### Cleaning agent

Equipment: BIGUMA®- SWS and commercial solvents

At skin contact: hand washing paste

### Authoritative regulations

At the repair of cracks you have to follow among others the following regulations:

- ZTV Fug-StB
- ZTV BEA-StB
- Hints for the repair of crack as well of damaged seams and connections in traffic eas made out of asphalt (HSR)

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**Technical data**

Application temperature:	approx. 160 - 180 °C
Density:	approx. 1.28 g/cm <sup>3</sup>
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](http://www.dga.de).

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