

# BIGUMA<sup>®</sup>-N2 Plus



Polymer modified bituminous joint sealant in accordance with TL Fug-StB and DIN EN 14188-1, Type N2



## Use

The joint sealant is suitable for the sealing of joints in all concrete and asphalt pavements. Because its increased movement accommodation the joint sealant is especially suitable for traffic areas, in which – due to the construction method or respectively the edge conditions – increased movements have to be expected. The movement accommodation factor is 35%.

## Properties

BIGUMA<sup>®</sup>-N2 Plus fulfils the requirements of DIN EN 14188-1, Type N2.

BIGUMA<sup>®</sup>- N2 Plus or the produced joints distinguish itself by the following characteristics:

- plastic elastic set, therefore optimum balance between high movement accommodation and stress relief within the joint
- designed for a possibly change in the joint width of up to 35 %
- very good application characteristics at heat and at cold
- good bonding at bituminous and mineral subsoil
- high ageing resistance
- resistant against aqueous solutions, salts and thinned acids, or similar
- bituminous building material and therefore problem-free recyclable

## Application instructions

### a) Melting

BIGUMA<sup>®</sup>- N2 Plus 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 concrete and asphalt joints to be sealed should be thoroughly blown with high-pressure-air or cleaned with a brushing machine if necessary, 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. For BIGUMA<sup>®</sup>- N2 Plus the primer COLZUMIX<sup>®</sup>-Haftgrund N2 Plus has to be used, which is adapted to this material. The function of the primer is to bind the dust bonding at the concrete or asphalt and to form an adhesive layer, which will fuse with the sealant being filled into the joints. The primer must cover the joint flanks completely by forming a film. It is recommendable to prime at both sides a stripe of approx. 1 cm width of the pavement. Before filling the joints the applied primer must have dried, i. e. the surface must be touch-dry. The primed joint has to dry and be free from dust to guarantee an intensive bond to the concrete or the asphalt.

## Central Sales

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## Producer

Plant Dortmund

### c) Filling of the joints

BIGUMA®- N2 Plus 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 joints to be poured completely. There is the danger that voids may occur which later can result in sinking of the sealant under rolling traffic. Before the application of BIGUMA®- N2 Plus a bedding material is possibly to apply. Through the bedding material the height of the joint sealant in the joint will be modulated.

At the same time a leaking of the compound into possibly existing voids and the three-flank bonding will be prevented. A three-flank bonding may lead to a failure of the joint sealant caused by the tension. 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 material has to be poured under flushing.

### 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®-N2 Plus: joint length (cm) x joint width (cm) x joint depth (cm) x specific gravity of the sealant (g/cm<sup>3</sup>) = consumption (g).

Primer: The consumption of the primer (COLZUMIX®-Haftgrund N2 Plus) 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 joint sealant will be filled 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 filled into the heater together with the probably still adherent separation agent coating. Alternatively the joint sealant is available in silicone coated cartons.

Cartons: 24 kg, 12 kg

Thin metal tins: 30 kg, 10 kg

### Cleaning agent

Equipment: petrol and commercial solvents

At skin contact: hand washing paste

### Authoritative regulations

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

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

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## Technical data

Application temperature:	approx. 160 - 180 °C
Density:	approx. 1,1 g/cm <sup>3</sup>
Primer:	COLZUMIX <sup>®</sup> -Haftgrund N2 Plus

## Safety information

Please observe the safety data sheet, this contains important information on the handling, transport and storage of BIGUMA<sup>®</sup>-N2 Plus.

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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