



## **BIGUMA - TAPE**

**Polymer modified meltable bitumen joint tape in accordance with TL Fug – StB 01**

### **Uses:**

BIGUMA<sup>®</sup> - TAPE is a meltable joint tape in accordance with TL Fug – StB 01. BIGUMA<sup>®</sup> - TAPE is used for the sealing of connections in the asphalt road construction sector like they occur during road construction, maintenance works and excavation works. The high movement accommodation of BIGUMA<sup>®</sup> - Tape allows the of connections of seams between built-in sheets even with different mixture properties at built-in parts and concrete.

### **Properties:**

BIGUMA<sup>®</sup> - TAPE is a mechanically produced, rectangular formed, thermoplastic tape profile based on polymer modified bitumen.

BIGUMA<sup>®</sup> - TAPE or the connections produced with the tape itself by the following characteristics::

- accurate rectangular cross section
- easy to apply
- good using properties because of the modified polymer
- high aging resistance of the connection
- resistant against aqueous solutions, salts and thinned acids, or similar

### **Application instructions:**

Before the application of the joint tape the joint flanks have to be primed with COLZUMIX<sup>®</sup> - VFB. BIGUMA<sup>®</sup> - TAPE should be applied directly on the dry, that means touch-dry, primer.

BIGUMA<sup>®</sup> - TAPE is rolled and laid out along the joint edge, the separation layer must be directed upwards, right after the taking out of the carton. Afterwards the paper layer is removed and the tape is slightly melted on one side by using a propane gas cylinder and then firmly pressed on the prepared joint flank. This can take place with an application aid or manually by means of a scraper for example. Through the later contact with the hot asphalt mixture the melting of the joint tape takes place and the lasting bonding of the connections flanks. The already applied joint tape must be protected against traffic.

### **Requirements to the subsoil:**

The flanks of the asphalt layers (milling edges, cut edges, rolled flanks) must be dry, clean, free from frost, oil and grease. Remove all loose parts. For artificial dry-out of damp flanks, hot air can be used. Seam flanks must show uniform good compacting and good surface properties. This can be ensured by corresponding measures during application of the asphalt mixture.

### **Weather conditions:**

The application is only allowed to take place at dry weather conditions and at a surface temperature of at least 5 C. At lower temperatures additional measures are necessary like i.e. pre-heating of the joint flanks with the help of a flame.

### **Material consumption:**

#### **Recommended tape height and tape thickness**

- |                                      |                            |
|--------------------------------------|----------------------------|
| At rolled asphalt:                   | layer thickness plus 5 mm  |
| At mastic asphalt with chippings:    | layer thickness            |
| At mastic asphalt without chippings: | layer thickness minus 5 mm |

A minimum tape thickness of 10 mm is recommended.

The consumption of COLZUMIX<sup>®</sup> - VFB is approx. 0,03 l/m per cm layer thickness.

### **Storage:**

Dry and cool!

Pile height:

max. 4 cartons

Storage life:

at least 12 months under above mentioned conditions

**Form of supply:**

In cartons, rolled on siliconized paper, with 20 - 30 kg or. 30 - 105 m depending on the tape dimensions. The single layers are separated through a separation board. All popular dimensions can be supplied (width / height).

**Cleaning agent:**

Equipment: petrol and commercial solvents  
At skin contact: hand washing paste

**Authoritative regulations:**

At the production of connections or at maintenance works you have to follow among others the following regulations:

- ZTV Fug – StB 01
- ZTVA – StB 97
- ZTV – BEA StB 03
- ZTV – Asphalt StB 01
- M SNAR

**Technical data:**

Bitumen: polymer modified bitumen

Softening point ring & ball  
of the solid body (DIN EN 1427): > 90 °C

Cone penetration (BS 2499-3): approx. 30 1/10 mm

Shape retention (BS 2499-3): approx. 24 %

Cold bending behaviour at 0 °C (DIN 52123): no cracks through banding

Strain and bonding capability  
at -10 °C (SNV 671 920): > 10 %