

# GusjointT<sup>®</sup>-R Ultra Rail Sealing Compound

Highly elastic, polymer modified rail sealing compound  
in accordance with TL Fug-StB 24.

## Use

GusjointT<sup>®</sup>-R Ultra is suitable for the filling of joints between rails and adjoining surfaces as paving, concrete or asphalt. The joint sealant with its increased elasticity is particularly suitable for rails where, due to the design or traffic conditions, increased joint movement is to be expected.

## Properties

GusjointT<sup>®</sup> - R Ultra fulfils the requirements of “the Technical Delivery Conditions for bituminous joint sealants in traffic areas” (TL Fug-StB) for rail sealants.

## GusjointT<sup>®</sup> - R Ultra distinguishes itself by the following characteristics:

- plastic elastic set, therefore optimum balance between high movement accommodation and stress relief within the joint
- good application characteristics at heat and at cold temperatures
- good bonding at rail and adjoining surfaces
- high ageing resistance of the joint
- resistant against aqueous solutions, salts and thinned acids, or similar
- bituminous building material and therefore problem-free recyclable

## Application instructions

### a) Melting

GusjointT<sup>®</sup>-R Ultra 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 sealing 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) Requirement to the subsoil

The rail joints to be sealed should be thoroughly blown high-pressure-air or cleaned with a brushing machine if necessary, whereas you have to pay attention to special separation of cleaning and application work. For artificial dry-out or pre-heating of the joints, hot compressed air lances can be used.

For GusjointT<sup>®</sup>- R Ultra the primer GusjointT<sup>®</sup>-Primer 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's recommendable to prime at both sides a strip 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.

### c) **Filling of the joints**

GusjointT<sup>®</sup>-R Ultra 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 sealant 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.

To prevent a sinking of the rail joint compound the cell filling has always to be stable.

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 joint sealant has to be built-in at least 3 mm deeper of the upper age of the head of the rail.

## 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 0C°.

## Material consumption



**GusjointT<sup>®</sup>-R Ultra:**

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 (GusjointT<sup>®</sup>-Primer) is approx. 3% of the sealant amount needed.

## Storage



The product has to be stored cold and dry and is storable for at least 12 month.

## Form of supply



**Silicone coated cartons: 25 kg; 12 kg**

## Cleaning agent



**Equipment**

Petrol and commercial solvent

**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:

ZTV Fug-StB, TL Fug-StB 25.

## Technical data



**Application temperature:**

ca. 170 - 185 °C

**Density:**

ca. 1,08 g/cm<sup>3</sup>

**Primer:**

GusjointT<sup>®</sup>-Primer

## Safety informations

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