

Polymer-Modified Bituminous Joint Sealant Type N1 according to DIN EN 14188-1 and TL Fug-StB.

Product Description

GusjointT-N1 is a hot-applied, polymer-modified elastic joint sealant of **Type N1** in accordance with **DIN EN 14188-1** and **TL Fug-StB**.

It has been developed for the durable sealing of movement joints exposed to increased mechanical stress and larger joint movements.

Its high elasticity and excellent recovery characteristics make GusjointT-N1 particularly suitable for applications involving repeated expansion and compression cycles as well as changing climatic conditions.

Typical Applications

GusjointT-N1 is designed for the permanent sealing of movement joints in traffic areas, building construction and civil engineering works, including:

- Movement joints in concrete pavements
- Joints in heavily loaded asphalt and concrete surfaces
- Structural and connection joints in civil engineering
- Transition areas between different pavement materials
- Bridge edge zones, kerb areas and other locations subject to increased movement
- Repair and resealing of existing movement joints

Product Benefits

- Highly elastic polymer-modified formulation
- Joint movement capability up to **35%**
- Excellent elastic recovery
- Durable adhesion to concrete and asphalt
- High resistance to ageing and weathering
- Reliable performance under frost and elevated summer temperatures



- Easy application using standard hot-pour sealing equipment
- Suitable for heavily stressed movement joints

Packaging

12 kg anti-stick carton
25 kg anti-stick carton

Storage

Store in a cool, dry place protected from direct sunlight.

Material Consumption

Material requirement (kg) = Joint length (m) × Joint width (mm) × Joint depth (mm) × Density (g/cm³) ÷ 1,000

Primer consumption

Approx. **3%** of the quantity of sealant used.

Safety Information

Observe all applicable occupational health and safety regulations during handling and application.

For further information, please refer to the current Safety Data Sheet (SDS).

Application

Melting the Sealant

GusjoinT-N2 shall only be melted in **indirectly heated, thermostatically controlled melting units equipped with a mechanical agitator.**

The material should be heated slowly and evenly to the recommended application temperature of approximately **160–170 °C.**

Overheating must be avoided, as excessive temperatures may permanently impair the material properties and damage the polymer-modified components.

Melting kettles without mechanical agitation or directly heated bitumen boilers are not suitable. Uneven heating may also cause mineral fillers to settle, resulting in a loss of material homogeneity.

Before each melting operation, ensure that the melting kettle is clean and free from residues or carbonised material from previous applications.

Joint Preparation

Proper joint preparation is essential to ensure long-term sealing performance.

Joint faces must be sound, dry and free from dust, dirt, loose particles, oil, grease and any other contaminants that may impair adhesion.

Cleaning may be carried out using compressed air or suitable mechanical brushing equipment, depending on site conditions. To avoid recontamination, joint cleaning and sealing operations should be separated both spatially and organisationally wherever possible.

To improve adhesion between the substrate and the sealant, the use of **GusjoinT-Primer** is recommended.

The sprayable polymer-based primer should be applied to the full height of the joint faces. In practice, extending the primer approximately **10 mm** onto the adjacent pavement surface has proven beneficial for improving edge adhesion.

For saw-cut joints and routed cracks, primer application is likewise recommended.

Where an intensive hot-air lance treatment is carried out immediately before sealing, primer application may, depending on the substrate and site conditions, be omitted.

Joint Sealing

Joint sealing should be carried out in accordance with the applicable technical specifications.

The following conditions should be observed:

- Surface temperature of the pavement should be at least +5 °C
- Joints must be completely dry and clean
- Applied primer must be fully dry before sealing
- Suitable application equipment should be used to ensure a continuous and uniform material flow
- The recommended application temperature must be maintained throughout the sealing process

If the sealant temperature falls below the recommended application range, flow characteristics deteriorate significantly. This may result in incomplete joint filling and the formation of voids. Under traffic loading, such defects can lead to settlement of the sealant and allow water to penetrate into the pavement structure.

Partially cooled material remaining in pouring cans must not be reused.

Second Pour

Like all hot-applied bituminous sealants, GusjoinT-N2 undergoes slight volume shrinkage during cooling.

To achieve a completely filled joint, application in **two stages** is recommended.

The second pour should be carried out immediately after the first application while the surface remains clean and slightly glossy. The specified application temperature must also be maintained during the second pour to ensure proper fusion between both layers.

Joint Profile

For road pavements, the finished sealant should be slightly recessed below the pavement surface after cooling.

A recess of approximately **1–3 mm** is generally recommended.

For joints without chamfers, overfilling should be avoided in order to minimise unnecessary mechanical loading caused by traffic.

Technical Summary

Application temperature	approx. 160–170 °C
Primer	GusjoinT-Primer
Density	1,18 g/cm ³
Minimum substrate temperature	≥ +5 °C
Joint movement capability	up to 35%
Standard	DIN EN 14188-1 Typ N1

Edition: July 2026. Subject to technical modifications without prior notice.