BUILDING TRUST

PRODUCT DATA SHEET

Sika® Icosit® KC 100 Trackfix

(formerly TPH.® TRACKFIX® POX)

Ballast bonding material for railway construction (formerly TPH. TRACKFIX POX)

PRODUCT DESCRIPTION

Sika® Icosit® KC 100 Trackfix is a rigid, two-component epoxy based injection resin. Due to its high mechanical strengths, it can be used to fix and secure rail ballast efficiently and effectively in railway construction.

USES

Sika® Icosit® KC 100 Trackfix may only be used by experienced professionals.

- Rigid ballast bonding.
- Ballast slope protection.
- Bonding the transitions from ballast superstructure to slab track.
- Fixing and securing sleepers.

CHARACTERISTICS / ADVANTAGES

- High and fast penetration into the ballast.
- Permanent bonding of the ballast bed.
- Provides protection against flying ballast.
- Can be used on dry and damp surfaces.
- Reduction of dust formation during rail operations.
- Easier cleaning of track ballast beds.
- Reduces maintenance.

APPROVALS / STANDARDS

- Approval by the German Federal Railway Authority for operational testing of ballast bonding.
- Reaction to fire behaviour $A2_{fl}$-s1 according to EN 13501-1.

PRODUCT INFORMATION

Chemical Base	Epoxy resin		
Packaging	Component A Component B	20 kg Pail 8.8 kg Canister	
Shelf Life	In unopened original container, 12 months from production date		
Storage Conditions	Store the product in tightly closed original containers in dry and temperature-controlled rooms (+15°C to +25°C).		
Density	Component A Component B	~1.16 g/cm³ ~0.99 g/cm³	(EN ISO 2811-1)

TECHNICAL INFORMATION

Compressive Strength	~95 N/mm²	(EN 12190)
Flexural Strength	~34 N/mm²	(EN ISO 527)
Tensile Modulus of Elasticity	~190 N/mm²	(EN ISO 527)

APPLICATION INFORMATION

Consumption	~3 to 4 kg/m² for ballast slope reinforcement. ~1 to 2 kg/m² for bonding ballast bed of up to 15 cm thickness. ~2 to 4 kg/m² for bonding ballast bed of up to 30 cm thickness. ~5 to 8 kg/m² for bonding ballast bed of up to 50 cm thickness. NOTE: Consumptions stated here are based on our experiences. Prior to the works, a field test should be conducted within the area in question to enable an accurate calculation of the consumption required for that specific site.
Product Temperature	Minimum +15°C / maximum +30°C
Ambient Air Temperature	Minimum +10°C / maximum +40°C
Substrate Temperature	Minimum +10°C / maximum +30°C

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

SUBSTRATE PREPARATION

Before application, ballast must be inspected and examined by the most appropriate means, in accordance with any requirements, so the works can be suitably planned. The ballast to be bonded should be as dry, clean and free of separating components as possible.
A field trial to assess bonding is recommended.

MIXING

The A and B components are mixed homogeneously together in the specified mixing ratio, using a dry and clean mixing vessel of a suitable size. After mixing, due to its relatively long reaction time, the mixed product can be applied by a one-component pump.

APPLICATION

Recommended injection pump: ME-1 K ELECTRIC.
The mixed product should be applied homogeneously over the prepared area of track ballast by an injection lance (using the 'flood grouting' process). To facilitate this application, we recommend the use of an appropriate distribution head (an approximately 40 cm long T-shaped discharge pipe with outlets).
It is possible to pour over the track ballast without a pump within the reaction time (i.e. 'flooding').
Due to its relatively low viscosity, Sika® Icosit® KC 100 Trackfix penetrates quickly into the spaces and gaps of the ballast, sealing and solidifying it with a long-lasting effect.
The application in the designated areas should be repeated in intervals upon total solidification of the ballast is achieved.
Alternatively, Sika® Icosit® KC 100 Trackfix can be injected into the ballast, or under the sleepers, by ram injection lances.

CLEANING OF TOOLS

Clean equipment immediately after use with SikaInject® CL-2. Hardened material can only be removed mechanically.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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