

PRODUCT DATA SHEET

Sika® Stabilizer-2231 TBM T

Fire-resistant tail sealant grease for shielded TBMs

PRODUCT DESCRIPTION

Sika® Stabilizer-2231 TBM T is a fire-resistant tail sealant grease used for the protection of the metal brushes. It efficiently seals the brush chambers and the gap between the TBM tail shield and concrete segments against the ingress of groundwater, backfill grout and soil in the machine.

It is specifically formulated to resist water and grout pressures as well as breakdown under high mechanical pressure. It has very good pumping properties and adheres well to all types of metal and concrete surfaces.

WHERE TO USE

Sika® Stabilizer-2231 TBM T is used for:

 Sealing the brush chambers and the gap between the TBM tail shield and concrete segments against the ingress of groundwater, backfill grout and soil in the machine.

CHARACTERISTICS / ADVANTAGES

- Low density reduces consumption compared to traditional greases
- Pumping properties and cohesion easily adaptable to any TBM grease pumping
- Compatible with gaskets, metals and concrete, even wet
- Compatible with all plunger pumps and pumping systems in TBMs
- Packaging is largely made from recycled materials
- Lower pump pressure in the TBM
- Fire-resistant, no propagation of flames when exposed to sparks or direct flames
- Improved consistency
- Sealing ability under pressure
- Adhesion to metal and concrete surfaces, also when wet
- Enhanced washout resistance
- Non-miscible with annulus grout
- Easy to control with modern PLC in TBM

PRODUCT INFORMATION

Packaging	Drum	20 kg, 65 kg and 260 kg for press plate pumps
	Refer to the current price list for available packaging variations.	
Appearance / Colour	Homogeneous paste, light beige	
Shelf Life	12 months from date of production	
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	(1.37 ± 0.05) kg/L	(EN ISO 2811-1
Consistency	Tested at +20 °C 215 ± 2	10 (ASTM D217
Solubility	Non-soluble in water	
TECHNICAL INFORMATI	ON	
Specific Advice	Matsumura sealing test Load hysteresis value (at 10mm) Sliding on metal surface (dropping time)	34 bar (passed) 2.5 N > 45 min
	Water spray-off test < 7%	(ASTM D4049
APPLICATION INFORMA	TION	
Consumption	Average consumption is 0.7–1.2 kg/m² of external surfaces of the tunnel concrete segments. Consumption strongly depends on site conditions during TBM excavation such as: Surface roughness of tunnel segments Conditions of the brushes Quality of alignment of installed segments Direction and gradient of the tunnel Air trapped inside the pumping system Backfill grout pressure Contact Sika Technical Services for additional information.	
	Contact Sika Technical Services for a	uuitional iiiioriiiatiori.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

Compatible with Sika® admixtures and other Sika® products. Contact Sika Technical Services for additional information.

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-

Product Data Sheet

Compatibility

Sika® Stabilizer-2231 TBM TNovember 2024, Version 02.01
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APPLICATION INSTRUCTIONS

APPLICATION

- IMPORTANT Avoid discharge of the Product into the environment. Pump the Product using the tail sealant grease pumping system in the TBM.
- 2. Inject the Product in the brush chambers located between the tail shield and the tunnel lining.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and enduse 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Other locations

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