



PRODUCT DATA SHEET

Sika® Stabilizer-2232 TBM

Tail sealant grease for shielded TBMs

PRODUCT DESCRIPTION

Sika® Stabilizer-2232 TBM is a tail sealant grease for shielded TBM equipped with a brush system. It is formulated to resist high water and ground pressures, has very good pumping properties and adheres very well to all types of surfaces.

WHERE TO USE

Sika® Stabilizer-2232 TBM 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

- High density grease for enhanced performance in critical geologies with high groundwater pressure and not perfect conditions of brushes
- Perfectly adaptable to any pumping system in TBM
- Chemically compatible with other similar products in the market
- Compatible with gaskets, metals and concrete
- Packaging is largely made from recycled materials
- Sealing properties suitable for any type of TBM
- Adhesion to metal and concrete surfaces
- Non-miscible with annulus grout

PRODUCT INFORMATION

Packaging	Drum	70 kg and 250 kg for press plate pumps
Refer to the current price list for available packaging variations.		
Appearance / Colour	Homogeneous paste, 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	(1.62 ± 0.05) kg/L	(EN ISO 2811-1)
Consistency	Tested at +20 °C	225 ± 10 (ASTM D217)

TECHNICAL INFORMATION

Specific Advice	Matsumura sealing test	34 bar (passed)
	Load hysteresis value (at 10mm)	3.0 N
	Sliding on metal surface (dropping time)	> 15 min
	Water spray-off test	< 5%

APPLICATION INFORMATION

Consumption	<p>Average consumption is 0.8–1.5 kg/m² of external surfaces of the tunnel concrete segments.</p> <p>Consumption strongly depends on site conditions during TBM excavation such as:</p> <ul style="list-style-type: none"> ▪ Surface roughness of tunnel segments ▪ Condition of the brushes ▪ Quality of installed segments alignment ▪ Direction and gradient of the tunnel ▪ Air trapped inside the pumping system ▪ Grout pressure <p>Contact Sika Technical Services for additional information.</p>
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SYSTEMS

Compatibility	<p>Compatible with Sika® admixtures and other Sika® products.</p> <p>Contact Sika Technical Services for additional information.</p>
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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

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.

APPLICATION INSTRUCTIONS

APPLICATION

1. **IMPORTANT** Avoid discharge of the Product into the environment. Pump the Product using the tail sealant grease pumping system in the TBM.

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 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 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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