

## PRODUCT DATA SHEET

# Sika® Stabilizer-2232 TBM

Tail sealant grease for shielded TBMs

### 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.

### USES

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

<b>Packaging</b>	Drum	70 kg and 250 kg for press plate pumps
	Refer to the current price list for available packaging variations.	
<b>Shelf Life</b>	12 months from date of production	
<b>Storage Conditions</b>	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.	
<b>Appearance / Colour</b>	Homogeneous paste, beige	
<b>Density</b>	(1.62 ± 0.05) kg/L	(EN ISO 2811-1)
<b>Solubility</b>	Non-soluble in water	
<b>Consistency</b>	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%	(ASTM D4049)

## SYSTEM INFORMATION

Compatibility	Compatible with Sika® admixtures and other Sika® products. Contact Sika Technical Services for additional information.
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## APPLICATION INFORMATION

Consumption	Average consumption is 0.8–1.5 kg/m <sup>2</sup> of external surfaces of the tunnel concrete segments. Consumption strongly depends on site conditions during TBM excavation such as: <ul style="list-style-type: none"><li>▪ Surface roughness of tunnel segments</li><li>▪ Condition of the brushes</li><li>▪ Quality of installed segments alignment</li><li>▪ Direction and gradient of the tunnel</li><li>▪ Air trapped inside the pumping system</li><li>▪ Grout pressure</li></ul> Contact Sika Technical Services for additional information.
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## BASIS OF PRODUCT DATA

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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (MSDS) containing 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

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be

implemented with permission of Sika® Corporate Legal  
in Baar.

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