

## PRODUCT DATA SHEET

# Sika® Stabilizer-2232 TBM

### TAIL SEALANT GREASE FOR SHIELDED TBMs (TUNNEL BORING MACHINE)

#### 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. It has very good pumping properties and adheres very well to all types of surfaces.

#### USES

- 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>	595 lb drum (270 kg) 154 lb drum (70 kg)
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between 41°F - 95°F (5 °C - 35 °C) Always refer to packaging and current Safety Data Sheet for information on safe handling and storage
<b>Appearance / Color</b>	Beige Homogeneous Paste
<b>Density</b>	Approx. 1.62
<b>Solubility</b>	Non-soluble in water
<b>Consistency</b>	<b>ASTM D217</b>
	At 68 °F (20 °C) <span style="float: right;">0.88" (22.5 ± .1 mm)</span>

## TECHNICAL INFORMATION

Specific Advice	Matsumura Sealing Test (at 34 bar)	PASSED
	Load Hysteresis Value (at 10mm)	3.0 N
	Sliding on Metal Surface (dropping time)	> 15 min
		ASTM D4049
	Water Spray-off	< 5%

## SYSTEM INFORMATION

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

Coverage	<p>The correct consumption must be determined by <u>preliminary testing</u>. Pretrials should be executed to confirm correct consumption with the equipment that is intended to be used. Average consumption is 0.16-0.30 lb/ft<sup>2</sup> (0.8–1.5 kg/m<sup>2</sup>) 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"><li>▪ Surface roughness of tunnel segments</li><li>▪ Conditions of the brushes</li><li>▪ Quality of alignment of installed segments</li><li>▪ Direction and gradient of the tunnel</li><li>▪ Air trapped inside the pumping system</li><li>▪ Backfill grout pressure</li></ul> <p>Contact your Sika STM Technical Representative for additional information.</p>
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## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

**IMPORTANT** Avoid discharge of the product into the environment.

1. 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.

Contact your Sika STM Technical Representative for more information.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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### Product Data Sheet

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