

## PRODUCT DATA SHEET

# Sika® Stabilizer-2131 TBM

### FIRE-RESISTANT FIRST FILL TAIL SEALANT GREASE FOR SHIELDED TBMs (TUNNEL BORING MACHINE)

#### PRODUCT DESCRIPTION

Sika® Stabilizer-2131 TBM is a fire-resistant, first-fill tail sealant grease for shielded TBM. It effectively seals the brushes located in the tail shield.

#### USES

- Sealing and protecting the metal brushes located in the tail shield before TBM start-up.

#### CHARACTERISTICS / ADVANTAGES

- Sealing properties designed for any current metal brush system
- Very good adhesion to metal and concrete surfaces
- Easy to pump with flexible pipe
- Improved consistency
- Resistant to washout
- 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>	Light Grey Homogeneous Paste
<b>Density</b>	Approx. 1.59
<b>Solubility</b>	Non-soluble in water
<b>Consistency</b>	<b>ASTM D217</b>
	At 68 °F (20 °C) <span style="float: right;">0.77" (19.5 ± 1.0 mm)</span>

## TECHNICAL INFORMATION

Specific Advice	Matsumura Sealing Test (at 34 bar)	PASSED
	Load Hysteresis Value (at 10mm)	5.0 N
	Sliding on Metal Surface (dropping time)	> 90 min

## APPLICATION INFORMATION

### Coverage

The correct consumption must be determined by preliminary testing. Pretrials should be executed to confirm correct consumption with the equipment that is intended to be used. Average consumption is 11 lb/ft (16.5 kg/m) of shield circumference 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 your Sika STM Technical Representative for additional information.

## 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

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

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

1. Before starting up the TBM, apply the Product onto the metal brushes with a grease pump. Make sure the grease pump is as close as possible to the TBM. Keep the grease temperature above 60 °F (15 °C) during application.
2. Perform the initial filling with a separate flexible pumping hose (minimum diameter 2"). Make sure that there is no obstruction or bottleneck after the pump.

Note: Fit a flat tube to the end of the hose in order to ease the filling operation and ensure not to damage the brushes.

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.

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### Product Data Sheet

Sika® Stabilizer-2131 TBM  
August 2024, Version 02.01  
021404071000000125

SikaStabilizer-2131TBM-en-US-(08-2024)-2-1.pdf

