

## PRODUCT DATA SHEET

# Sika® Foam TBM-501 LS (TH)

### FOAMING AGENT FOR TBM - EPBM TUNNELING

#### DESCRIPTION

Sika® Foam TBM-501 LS (TH) is a liquid foaming agent based on biodegradable anionic surfactants and a high efficiency polymer.

#### USES

Sika® Foam TBM-501 LS (TH) has been specifically formulated to produce stable foam which can be easily injected in acid and basic soils from low permeability to high permeability during tunnelling operations with earth pressure balance machines (EPBM)

#### CHARACTERISTICS / ADVANTAGES

- Produces stable foam which can easily be injected in high to low permeability soils reducing the risk of front shield pressure loss.
- It can be used both in acid and basic soils.
- The high efficiency polymer allows keeping the shield clean from clays.
- Its lubricating capacity minimizes friction between soil particles and reduces the head torque.
- Easy to handle.
- Eliminates dust in air drilling and reduces the wear of cutters.
- Prevents clay from plugging.

#### PRODUCT INFORMATION

<b>Chemical base</b>	Biodegradable anionic surfactants and high efficiency polymer.
<b>Packaging</b>	200/1000 litres
<b>Appearance / Colour</b>	Clear homogeneous liquid.
<b>Shelf life</b>	12 months if stored properly in original unopened packaging.
<b>Storage conditions</b>	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +40 °C
<b>Density</b>	1.035 - 1.055 kg/L (at 25°C)
<b>Solubility</b>	Completely soluble in water
<b>pH-Value</b>	6.5 - 8.5 (at 25°C)

#### SYSTEM INFORMATION

<b>Compatibility</b>	<b>Sika® Admixtures:</b> <ul style="list-style-type: none"> <li>▪ Compatible with all Sika® TBM tunnelling stabilizing polymers e.g. Sika® Foam TBM 900 Bio and Sika® Foam TBM 1000 Bio.</li> <li>▪ Other product compatibility information available on request.</li> </ul>
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## APPLICATION INFORMATION

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<b>Recommended Dosage</b>	1.5 – 3.0 % of Sika® Foam TBM-501 LS (TH). Support by Sika technical service is recommended.
<b>Restrictions</b>	If separation of liquid solution occur, mix product intensely before using.

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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

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.

### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

### 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.

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#### Product Data Sheet

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