

PRODUCT DATA SHEET

Sika® Stabilizer-1516 TBM

Liquid anti-abrasion foaming agent for hard rock and EPB TBMs

DESCRIPTION

Sika® Stabilizer-1516 TBM is specially designed to reduce abrasion and dust for TBM operating both in hard rock and EPB TBMs. It is particularly suitable for rock formations with Cerchar Abrasivity Index (CAI) above 1.5–2.0.

USES

Sika® Stabilizer-1516 TBM is used for:

- Reducing abrasive wear to the cutting tools
- Reducing dust formation during excavation
- Reducing the torque of the cutterhead

CHARACTERISTICS / ADVANTAGES

- Reduces abrasive wear on the cutting tools
- Reduces dust formation, resulting in a better working environment for TBM personnel
- Improves cooling of the cutterhead, resulting in improved rubber seal durability and extended life of the cutter bearings
- Reduces the TBM downtime due to fewer cutter changes, allowing more time for excavation
- Improves transfer of muck from the cutterhead, reducing the risk of blockages and keeping the cutter discs and cutterhead area cleaner. This makes maintenance easier and reduces disc change times.
- Reduces overall costs due to higher monthly advance rate and lower maintenance costs

PRODUCT INFORMATION

Chemical Base	Aqueous solution of non-ionic surfactants	
Packaging	Intermediate Bulk Container (IBC) <u>1000 L</u>	
	Refer to the current price list for available packaging variations.	
Shelf Life	12 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and 40 °C. Always refer to packaging.	
Appearance / Colour	Liquid, transparent, yellow to brown	
Density	(1.030 ± 0.01) kg/L	(EN ISO 2811-1)

SYSTEM INFORMATION

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

Recommended Dosage	As a guide, the typical consumption rate of the Product is between 0.5–1.5 kg/m ³ of undisturbed rock. The consumption of the Product depends on the following parameters: <ul style="list-style-type: none">▪ Type of TBM▪ Type of excavated ground▪ Cerchar Abrasivity Index (CAI)▪ TBM operation mode Note: Preliminary laboratory trials are always recommended to determine the optimum consumption and injection parameters. Contact Sika Technical Services for additional information.
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Consumption	0.5–1.5 kg/m ³
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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.

APPLICATION INSTRUCTIONS

APPLICATION

1. Turn the Product into foam by using the existing foam generators in EPB TBM. The Product can also be foamed in Rock TBM equipped with an on-bolt foaming generation system.
2. Inject the foam directly to the front of the excavation. Injection parameters Cf, FER and FIR should always be kept under monitoring during TBM mining.

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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