

PRODUCT DATA SHEET

Sika® Stabilizer-1118 TBM

Foaming agent for TBM - EPBM tunneling

DESCRIPTION

Sika® Stabilizer-1118 TBM is a specially designed liquid soil conditioning foaming agent without glycol. It has been formulated to be used with earth pressure balance machines (EPBM) for modifying the properties of the excavated soil particularly in low to high permeability soils.

USES

Produces a stable foam which can be easily injected into low to high permeability soils during tunnelling operations with earth pressure balance machines (EPBM)

FEATURES

- Modifies properties of the excavated soil
- Improves the excavation process and TBM performance
- Can be used in acid and basic soils
- Lubricating properties minimises friction between soil particles and reduces the cutting wheel torque
- Prevents clay from plugging (with a low percentage of clay in the soil)
- Reduces dust in the air and decreases the wear of cutters in rock excavation (adopt low FER and FER parameters during application)
- Easy to handle and use
- Normal or hard fresh water can be used to produce the foam

PRODUCT INFORMATION

Composition	Anionic surfactants
Packaging	50 L and 200 L drums. 1000 L tanks
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 50 °C. Always refer to packaging.
Appearance and colour	Liquid / Clear, slightly yellow
Density	1.025 kg/l ± 0.025
Solubility	Completely soluble in water
pH-Value	9.5 ± 1

APPLICATION INFORMATION

Recommended dosage	Dosage	~1.5–3.0 %
	Foam Expansion Ratio (FER)	~1:2 to 1:20
	Foam Injection Ratio (FIR)	~10 % up to 60 %

This information is a guide only and will be specific to each soil type. Preliminary trials in the laboratory must always be carried out to determine foam parameters, such as dosage, FER and FIR. Contact Sika Technical Services for additional information.

Dispensing	Inject through standard TBM dosing and foaming equipment
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SYSTEM INFORMATION

Compatibility	Compatible with Sika® admixtures and other Sika® products. Contact Sika Technical Services for additional information.
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BASIS OF PRODUCT DATA

All technical data stated in this 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

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

Sika Gulf B.S.C. (c)
Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC
Sika MB Construction Chemicals LLC
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited
Sika Construction Chemicals for Manufacturing LLC
Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 12 692 7079
Email: info@sa.sika.com
Web: gcc.sika.com

Sika LLC - Oman
Master Builders Solutions LLC (part of Sika)
Tel: +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com



ISO 9001, 14001, 45001 – SGS
- Sika UAE LLC
- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
- Sika MB Construction Chemicals LLC
- Sika Construction Chemicals for Manufacturing LLC
- Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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