

PRODUCT DATA SHEET

Sika® Stabilizer-1118 TBM TH

Foaming agent for TBM - EPBM tunneling

DESCRIPTION

Sika® Stabilizer-1118 TBM TH 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).
- Suitable for soil containing relatively larger amount of particle > 0.07 mm (upper limit of silt).

CHARACTERISTICS / ADVANTAGES

- 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 by HR TBM (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	200 kg drums. 1000 kg tanks.
Appearance / Colour	Liquid / Clear, slightly yellow.
Shelf life	12 months from date of production.
Storage conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions and protected from direct sun exposure at temperatures between +5 °C and +35 °C.
Density	1.025 kg/l ± 0.01
Solubility	Completely soluble in water.
pH-Value	9.5 - 11.5

SYSTEM INFORMATION

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

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.	
Restrictions	If separation of the liquid product occurs, mix intensely before using.	

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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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.

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