

PRODUCT DATA SHEET

Sika® Stabilizer-1118 TBM GB

Foaming agent for soft ground granular soils in TBM application

PRODUCT DESCRIPTION

Sika® Stabilizer-1118 TBM GB is a foaming agent used for soil conditioning in shielded TBMs. It has been formulated to be used in EPB TBMs for modifying the mechanical and physical properties of the excavated soil, particularly in grounds with medium to high permeability.

USES

Sika® Stabilizer-1118 TBM GB is used to create a highly stable foam to hold the face pressure and maintain the rheology of the excavated ground longer than conventional foaming agents.

Sika® Stabilizer-1118 TBM GB is typically used in soft ground or granular soils with medium to high ground-water pressure.

CHARACTERISTICS / ADVANTAGES

- Particularly effective for soil conditioning in granular soils with high fines contents (<0.063 mm)
- Creates plastic deformation properties in the soil, which increases face stability
- Reduces inner friction and abrasiveness of the soil at the cutterhead and shield
- Reduces wear costs
- Reduces power consumption and torque
- Improves soil extraction and conveyance

PRODUCT INFORMATION

Chemical Base	Anionic surfactants
Packaging	1000 L bulk IBCs
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 at temperatures between +5 °C and 35 °C. Always refer to packaging.
pH-Value	9.5 ±1
Solubility	Completely soluble in water
Specific gravity	1.03 kg/L

APPLICATION INFORMATION

Recommended Dosage	Sika® Stabilizer-1118 TBM GB is used as an aqueous solution with a typical concentration of 1–3 %, depending on soils fines content and groundwater pressure. Contact Sika Technical Services for additional information.
Dispensing	Sika® Stabilizer-1118 TBM GB must be used with standard TBM foaming injection systems

VALUE BASE

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

REGULATION (EC) NO 1907/2006 - REACH

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

- Conduct preliminary trials in the laboratory to determine foam injection parameters, such as Concentration (Cf), FER and FIR.
- Sika® Stabilizer-1118 TBM GB is used with the standard foam generators installed in all EPB machines. Inject it at the front of the cutterhead, into the excavation chamber or into the screw conveyor.
- Analyse the TBM data regularly to monitor product performance.

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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