

PRODUCT DATA SHEET

Sika® Stabilizer-1518 TBM GB

Foaming agent with anti-clogging polymer for TBM application in clayey soils

PRODUCT DESCRIPTION

Sika® Stabilizer-1518 TBM GB is a foaming agent designed to reduce clogging risk in highly cohesive grounds. It has been formulated to increase dispersion of the excavated clayey grounds, to reduce torque and favor the extraction from the excavation chamber.

USES

Produces a stable foam which can be easily injected into highly cohesive soils during tunnelling operations with EPB TBMs.

CHARACTERISTICS / ADVANTAGES

- High dispersion effect and extensive clogging reduction in clayey soils
- Reduces clogging and adhesion effects on the cutter-head and all metal parts of the TBM
- Creates a plastic soil material which can be easily excavated and transported
- Reduces wear of metal parts of the TBM
- Reduces torque
- Increases TBM advance speed
- Avoids re-agglomeration of clay chips
- Lowers inner friction and abrasiveness of the soil
- High foamability

PRODUCT INFORMATION

Chemical Base	Anionic surfactants and high efficiency anti-clay polymer
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	5.5 ±0.5
Solubility	Completely soluble in water
Specific gravity	1.05 kg/L

APPLICATION INFORMATION

Recommended Dosage

Sika® Stabilizer-1518 TBM GB is used as aqueous solution with a typical 1-3% concentration, depending on the cohesiveness and plasticity of the soil. 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.

SYSTEM INFORMATION

Compatibility

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

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-1518 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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