

PRODUCT DATA SHEET

Sika® Stabilizer-1118 TBM

Foaming agent for TBM - EPBM tunneling

PRODUCT 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)

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 (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

Chemical Base	Anionic surfactants
Packaging	275 US gallon totes (1040 Liters) Bulk delivery Custom packaging is available to suit specific project requirements
Shelf Life	12 months from date of production
Storage Conditions	Store in original, unopened and undamaged packaging in dry conditions at temperatures between 41°F - 95°F (5 °C - 35 °C) Always refer to packaging
Appearance / Color	Clear, Slightly Yellow Liquid
Specific gravity	Approx. 1.02
Solubility	Completely soluble in water
pH-Value	Approx. 9.5

SYSTEM INFORMATION

Compatibility

Compatible with Sika® admixtures and other Sika® products.
Contact your Sika STM Technical Representative for more information.

APPLICATION INFORMATION

Recommended Dosage

Dosage	~1.5 % to 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 your Sika STM Technical Representative for more information.

Mixing

Inject through standard TBM dosing and foaming equipment

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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