



## PRODUCT DATA SHEET

# Sika® Stabilizer-1118 TBM CA

### FOAMING AGENT FOR TBM - EPBM TUNNELING

#### PRODUCT DESCRIPTION

Sika® Stabilizer-1118 TBM CA 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.

#### WHERE TO USE

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
- Easy to handle and use
- Normal or hard fresh water can be used to produce the foam

#### PRODUCT INFORMATION

<b>Composition / Manufacturing</b>	Anionic surfactants
<b>Packaging</b>	1040 L IBC
<b>Shelf Life</b>	18 months from date of production
<b>Storage Conditions</b>	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.
<b>Appearance / Colour</b>	Liquid / Clear, slightly yellow
<b>Density</b>	1,025 kg/l ± 0,025
<b>Solubility</b>	Completely soluble in water
<b>pH-Value</b>	4,5

# SYSTEMS

## Compatibility

Contact your Sika Canada technical sales representative for additional information.

## APPLICATION INFORMATION

### Recommended Dosage

Dosage	~1,5-3,0 %
Foam Expansion Ratio (FER)	~1:5 to 1,25
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 Canada technical sales representative for additional information.

### Mixing

Inject through standard TBM dosing and foaming equipment

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## ENVIRONMENT, HEALTH & 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

### Sika Canada Inc.

Head Office  
601, avenue Delmar  
Pointe-Claire, Quebec  
H9R 4A9  
1-800-933-SIKA  
[www.sika.ca](http://www.sika.ca)

### Other locations

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

### Product Data Sheet

Sika® Stabilizer-1118 TBM CA  
January 2023, Version 01.01  
021404071000000082

SikaStabilizer-1118TBMCA-en-CA-(01-2023)-1-1.pdf

