



PRODUCT DATA SHEET

Sika® Stabilizer-1219 TBM CA

New generation high-performance foaming agent for heterogeneous ground in TBM applications

PRODUCT DESCRIPTION

Sika® Stabilizer-1219 TBM CA is a high-performance foaming agent based on biodegradable raw materials. It is used to improve tunnelling performance in low-temperature environments. It remains stable at low temperatures to control the rheology of the soil without altering the construction performance. The Product improves foam stability for better control of the ground pressure, reducing the risk of additional ground settlement at the surface and over excavation.

WHERE TO USE

Sika® Stabilizer-1219 TBM CA 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-1219 TBM CA is used for:

- Soil conditioning in gravel to silty soils in environments with low temperatures.

CHARACTERISTICS / ADVANTAGES

- Improves overall tunnel performance
- Ability to work with high FER values avoiding the collapse of the foam, compared to standard foaming agents
- Reduces FIR (Foam Injection Ratio) values to obtain the desired soil rheology, compared to standard foaming agents
- Reduces tunnel excavation time
- Reduces TBM maintenance costs
- Facilitates muck extraction from tunnel and from the muck pit area
- Improves face excavation support pressure and control
- No separation and high foam stability at low temperatures
- Reduces soil permeability very quickly
- Very good performance also at high temperatures

PRODUCT INFORMATION

Composition / Manufacturing	Surfactant	
Packaging	Intermediate bulk container (IBC)	1040L
	Bulk	Tanker
Appearance / Colour	Liquid, transparent	
Shelf Life	12 months from date of production	
Storage Conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +40 °C. Always refer to the packaging. Do not allow the Product to freeze. Refer to	

the current Safety Data Sheet for information on safe handling and storage.

Density (1.025 ± 0.025) kg/L (EN ISO 2811-1)

APPLICATION INFORMATION

Recommended Dosage The Product is used as aqueous solution with a typical 1–3 % concentration, depending on ground conditions.
Contact Sika Technical Services for additional information.

SYSTEMS

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

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.

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

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