



## PRODUCT DATA SHEET

# Sika® Stabilizer-1514 TBM CA

Anti-clogging foaming agent for Tunnel Boring Machines (TBM)

### PRODUCT DESCRIPTION

Sika® Stabilizer-1514 TBM CA is a foaming agent especially designed for soil conditioning in soft ground conditions, clayey soils with clogging and adhesion issues.

Sika® Stabilizer-1514 TBM CA guarantees improved rheology of the excavated soil and facilitates extraction from outside the excavation chamber by reducing clogging and adhesion to metal parts of the machine.

### WHERE TO USE

Sika® Stabilizer-1514 TBM CA is designed for clayey soils in any kind of environments, since it remains stable and homogeneous also when the temperature drops.

Sika® Stabilizer-1514 TBM CA can be used with the standard foam generators installed in all EPB machines. It must be injected at the cutterhead to the front into the TBM working chamber.

### CHARACTERISTICS / ADVANTAGES

- Reduced clogging and adhesion effects on the cutting wheel
- Creation of a plastic soil material which can be easily excavated and transported
- Reduced wear of metal parts of the TBM
- Reduction of cutting wheel torque
- Increase in TBM advance speed
- Avoiding re-agglomeration of clay chips to blocks
- Creation of plastic deformation properties in clayey soil, which increases extraction
- Lower inner friction and lower abrasiveness of the soil at the cutting wheel and shield
- High dispersion effect and extensive clogging reduction in clayey soils
- Ensured reduction of adhesion to metal parts
- High foamability

### PRODUCT INFORMATION

<b>Composition / Manufacturing</b>	Ionic surfactant
<b>Packaging</b>	1040l tote
<b>Shelf Life</b>	12 months from the 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 40 °C. Always refer to packaging.
<b>Appearance / Colour</b>	liquid/brown
<b>Density</b>	1.040 kg/l ± 0.025
<b>Solubility</b>	Completely soluble in water

## SYSTEMS

### Compatibility

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

## APPLICATION INFORMATION

### Recommended Dosage

Sika® Stabilizer-1514 TBM CA is used as aqueous solution with a typical 1 % - 3% concentration, depending on the stickyness 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.

### Mixing

Easily injectable by any standard foam generator installed in TBM EPB machines.

### Product Temperature

At low temperatures the product can become slightly turbid, but this doesn't affect the performance once remixed and homogenized being the formulation chemically reversible. Do not allow the product to freeze.

## 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)

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### Other locations

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

### Product Data Sheet

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