



## PRODUCT DATA SHEET

# Sika® Stabilizer-6018 TBM

Set accelerating admixture for cement or bentonite stabilized and retarded injection grouts

### PRODUCT DESCRIPTION

Sika® Stabilizer-6018 TBM is a set and hardening accelerating admixture for cement / bentonite injection grouts, commonly used in backfilling operations during tunnel excavation with shielded TBMs. During excavation, the shield leaves an empty ring space between the concrete lining and the excavated ground. Injection and filling of this space is commonly done with a cement / bentonite grout that is stabilized and retarded.

### WHERE TO USE

The Product is normally used in tunnel excavation with shielded tunnel boring machines (TBMs).

The Product is used for:

- The re-activation of the setting properties of two component grouts
- Acceleration of the grout setting time allowing the hardening of an injected mix even if it has been retarded for 24-72 hours

### CHARACTERISTICS / ADVANTAGES

- Stops segregation and bleeding after injection.
- Ensures a controlled hardening of the injected grout.
- Allows hydration of cement.
- Ensures good mechanical strengths. (comparable to ground strengths)

### PRODUCT INFORMATION

|                                    |  |                                    |
|------------------------------------|--|------------------------------------|
| <b>Composition / Manufacturing</b> | Silicate Base  |                                    |
| <b>Packaging</b>                   | Bulk Supply.<br>Refer to the current price list for available packaging variations.  |                                    |
| <b>Shelf Life</b>                  | 12 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 +40 °C.<br><br>Always refer to packaging. |                                    |
| <b>Appearance / Colour</b>         | <u>Appearance</u><br>Colour  | <u>Liquid</u><br>Almost colourless |
| <b>Specific Gravity</b>            | (1.360 ± 0.020) kg/l   |                                    |
| <b>Solubility</b>                  | Soluble in water.  |                                    |

## SYSTEMS

### Compatibility

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

## APPLICATION INFORMATION

### Recommended Dosage

Typical dosage range of Sika® Stabilizer-6018 TBM is 40-130 kg per cubic meter of grout. Pre-trials to confirm the actual required dosage for the materials and mix design in use must be done by the user.

## 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.

## APPLICATION INSTRUCTIONS

### DISPENSING

Addition of Sika® Stabilizer-6018 TBM is done through a special injector that pushes the admixture into the grout lines at the end of the back of the TBM shield. The Product must only be added to grout immediately before injection of the grout. Conduct jobsite and laboratory trials to evaluate the setting time specific to the project.

## 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-6018 TBM  
October 2022, Version 01.02  
021404071000000091

SikaStabilizer-6018TBM-en-CA-(10-2022)-1-2.pdf