



## PRODUCT DATA SHEET

# Sika® Stabilizer-5011 TBM CA

Retarding and water-reducing admixture for cement / bentonite injection grouts

### PRODUCT DESCRIPTION

Sika® Stabilizer-5011 TBM CA is a retarding and water reducing admixture for cement or cement / bentonite injection grouts, commonly used in backfilling operations during tunnel excavation with shielded tunnel boring machines (TBMs).

### WHERE TO USE

- The retarding effects of the Sika® Stabilizer-5011 TBM CA allow for the cement or cement / bentonite injection grout to have an extended setting for up to 72 hours.
- Sika® Stabilizer-5011 TBM CA is supplied in liquid form and is added into the cement grout during the mixing process

### CHARACTERISTICS / ADVANTAGES

- Sika® Stabilizer-5011 TBM CA ensures a controlled workability of the cement or cement / bentonite grout for up to 72 hours.
- Sika® Stabilizer-5011 TBM CA allows for the pumpability of the retarded and stabilized grout, and helps reduce segregation.
- Sika® Stabilizer-5011 TBM CA does not contain calcium chloride or any other intentionally added chlorides.

### PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"><li>▪ 1040 L (275 US gal.) IBC container</li><li>▪ Bulk delivery</li></ul>
<b>Shelf Life</b>	1 year when stored in dry warehouse conditions between 10 - 27°C (50 - 80°F).
<b>Storage Conditions</b>	Store at above 5°C (40°F). If frozen, thaw and agitate thoroughly to return to normal state before use.
<b>Colour</b>	Brown-greenish liquid
<b>Specific Gravity</b>	Approx. 1.2
<b>Recommended Dosage</b>	Dosage rates will vary depending on the cementitious material used in the grout, ambient conditions and the requirements of a specific project. For general cement and cement / bentonite injection grout applications, Sika recommends a dosage rate between 2 - 10 L /m <sup>3</sup> of grout. Dosage rates outside the recommended range may be used where extreme ambient conditions are encountered or unusual project conditions require special

consideration. Where extended retardation is required dosage may be increased. In any case, please contact your Sika Canada Technical Sales Representative for further information and project specific dosage recommendations

## 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.

### MIXING

Add Sika® Stabilizer-5011 TBM CA at the grout plant during mixing. Measure required quantity manually or by automated dispenser. Add directly into the wet grout near the end of the mixing cycle. Combination with other Admixtures: Sika® Stabilizer-5011 TBM CA works effectively as a single admixture or in combination with other Sika® admixtures. When used in combination with other admixtures, care must be taken to dispense each admixture separately into the mix. Do not mix with dry cement.

## 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

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