

PRODUCT DATA SHEET

Sika® Stabilizer-5010 TBM US

RETARDING / WATER-REDUCING ADMIXTURE FOR CEMENT / BENTONITE INJECTION GROUTS

PRODUCT DESCRIPTION

Sika® Stabilizer-5010 TBM US 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).

USES

- Supplied in liquid form and is added into the cement grout during the mixing process.

- Retarding effects allow for the cement or cement / bentonite injection grout to have an extended setting time of up to 72 hours.

CHARACTERISTICS / ADVANTAGES

- Ensures controlled workability of the cement or cement / bentonite grout for up to 72 hours.
- Allows for the pumpability of the retarded and stabilized grout, and helps reduce segregation.
- Does not contain calcium chloride or any other intentionally added chlorides.

PRODUCT INFORMATION

Packaging	275 US gal tote (1040 Liters) Bulk delivery Custom packaging is available to suit specific project requirements
Shelf Life	12 months from date of production
Storage Conditions	Store in original, unopened and undamaged packaging in dry conditions at temperatures above 40 °F (5 °C) If frozen, thaw and agitate thoroughly to return to normal state before use Always refer to packaging
Appearance / Color	Fluorescent Green / Brown Liquid
Specific gravity	Approx. 1.18

SYSTEM INFORMATION

Compatibility

Compatible with Sika® admixtures and other Sika® products.
Contact your Sika STM Technical Representative for additional information.

APPLICATION INFORMATION

Recommended Dosage

The correct dosage must be determined by preliminary testing. Pre-trials should be executed to confirm correct dosage with the equipment and shotcrete that is intended to be used. 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 0.4 - 2 US gal per cubic yard of grout (2-10 L per m³ 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 STM Technical Representative for further information and project specific dosage recommendations.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

MIXING

Add Sika® Stabilizer-5010 TBM US 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-5010 TBM US 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. Contact your Sika STM Technical Representative for more information.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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Product Data Sheet

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