

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.

USES

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

- Allows pumpability of retarded and stabilized grout.
- 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

Chemical Base	Silicate Base
Packaging	Bulk Supply Custom packaging is available to suit specific project requirements
Shelf Life	12 months from date of production
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between 41°F - 104°F (5 °C - 40 °C) Always refer to packaging
Appearance / Color	Almost Colorless Liquid
Specific gravity	Approx. 1.36
Solubility	Soluble in water
pH-Value	11–12

SYSTEM INFORMATION

Compatibility

Compatible with Sika® admixtures and other Sika® products.
Contact Sika Technical Services 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. Typical dosage range of Sika® Stabilizer-6018 TBM is 6 - 19.3 US Gal per cubic yard of grout (40 - 130 kg per cubic meter of grout).

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

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 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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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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.**

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