

PRODUCT DATA SHEET

Sika® Stabilizer-5010 TBM EG

Plasticising admixture with set retarding properties for use in annular grout Component A for TBM application

DESCRIPTION

Sika® Stabilizer-5010 TBM EG is a liquid plasticizer which disperses and deflocculates cement particles whilst delaying the hydration process, thereby retarding the initial and final set. It can be used to improve workability without the addition of extra water, or to allow reductions in the free water content. Due to improved dispersion of the cement particles the process of hydration of Component A proceeds under the optimum conditions, leading to improved strength characteristics with or without reduction in

USES

- High flow, low cement content, high w/c ratio annular grout mixes for TBM tunneling.
- Hot weather applications of grout where control of initial and final set is important.
- Setting control of annular grout mixes for injection behind segmental tunnel linings.

FEATURES

- The retarding action allows storage of the annular grout in the pumping lines and grout agitator tanks on the TBM for up to 72 hours depending on dosage.
- Enables controlled extension of initial set of Component A.
- Highly effective in low cement content high water cement ratio mixes where its use enables grout to be made more workable without loss in strength, density and durability
- Allows a reduction in free water in the region of 5–12 %
- The strength gain of annular grouts containing Sika® Stabilizer-5010 TBM EG is enhanced. After retardation of initial and final set, a more rapid hardening of the grout occurs, and the effect on stripping time is negligible.

PRODUCT INFORMATION

Packaging	Sika® Stabilizer-5010 TBM EG is available in bulk, 1000 L flowbins or 210 L drums.	
Appearance and colour	Brown liquid	
Shelf life	12 months from date of production	
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +50 °C. Always refer to the packaging	
Density	1.21-1.23 kg/litre	
Total chloride ion content	Nil	(EN 934-2)

APPLICATION INFORMATION

Recommended dosage Field trials should be conducted to determine the optimum addition rates

of Sika® Stabilizer-5010 TBM EG. As a guide to these trials, a dosage range of 3–5 % per m3 of backfill grout. Dosages outside this range can be used where improved workability, increased water reduction and/or further set retardation are required.

Compatibility

Sika® Stabilizer-5010 TBM EG can be used with all types of Portland cement including sulphate resisting (Type V). For use with other special cements, contact Sika Technical Department. Sika® Stabilizer-5010 TBM EG is compatible with accelerators such as Sika® Stabilizer-6001 EG. Sika® Stabilizer-5010 TBM EG should not be premixed with other admixtures. If other admixtures are to be used in annular grouts containing Sika® Stabilizer-5010 TBM EG, they must be dispensed separately. Consult Sika Technical Department.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

A severe over dosage of Sika® Stabilizer-5010 TBM EG will result in:

- Increased retardation of initial and final set.
- Increase in workability.

Providing annular grout is properly cured the ultimate strength of the grout will not be adversely affected and will generally be higher than for normal concrete. Care should be taken to allow for the effect on injection.

ECOLOGY, HEALTH AND 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

APPLICATION

Sika® Stabilizer-5010 TBM EG is added to the Component A mix.

Never add Sika® Stabilizer-5010 TBM EG to the dry cement. No extension to normal mixing time is necessary.

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika Egypt

1st Industrial Zone (A)
Section #10, Block 13035
El Obour City, Egypt
TEL: +202 44810580
FAX: +202 44810459
egy.sika.com



SikaStabilizer-5010TBM EG-en-EG-(05-2026)-1-1.pdf

Product Data Sheet
Sika® Stabilizer-5010 TBM EG
May 2026, Version 01.01
021404071000245114