

PRODUCT DATA SHEET

Sika® Stabilizer-6001 TBM AE

LIQUID ACCELERATOR AS COMPONENT B OF TBM BACKFILL GROUTS

DESCRIPTION

Sika® Stabilizer-6001 TBM AE is a sodium-based liquid accelerator commonly used in two-component backfill grouts, during tunnelling excavation with shielded TBMs.

During excavation, the shield leaves an empty ring space between the tunnel concrete segments and the excavated ground. Injection and filling of this space is commonly done with a backfill grout that is stabilized and retarded.

USES

Sika® Stabilizer-6001 TBM AE is normally used in tunnel excavation with shielded tunnel boring machines (TBMs).

Sika® Stabilizer-6001 TBM AE is designed for usage in two-component grouts where a rapid gel and early strength values are decisive.

The Product is fully compatible with retarders such as Sika Stabilizer-5010 TBM.

FEATURES

- Easily pumpable
- Fast setting and higher early strength achievement as compared to traditional accelerators
- Rapid work progress
- Good workability (easily mixed in the grout)
- Low viscosity
- Depending on dosage, flexibility and control of gel time (setting time) and also compressive strengths

PRODUCT INFORMATION

Composition	Silicate Base
Packaging	Drums, flowbins or bulk supply
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.
Appearance and colour	Clear liquid
Specific gravity	~1.37
Solubility	Soluble in water
pH-Value	11 – 13

APPLICATION INFORMATION

Recommended dosage	The correct dosage must be determined by preliminary testing. Pre-trials should be conducted to confirm the correct dosage with the equipment and shotcrete that is intended to be used. Typical dosage range of Sika® Stabilizer-6001 TBM AE is 60 – 110 kg per cubic meter (m ³) of grout.
Compatibility	Compatible with Sika® admixtures and other Sika® products. Contact your Sika Technical Representative for additional information.

BASIS OF PRODUCT DATA

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

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

Addition of Sika® Stabilizer-6001 TBM AE is done through standard Component B injection systems equipped in modern TBMs. Sika® Stabilizer-6001 TBM AE is mixed with Component A immediately before injection of the grout. Conduct preliminary 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 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.

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ISO 9001, 14001, 45001 – SGS
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ISO 9001, 14001 – SGS
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
- Sika MB Construction Chemicals LLC
- Sika Construction Chemicals for Manufacturing LLC
- Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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