

PRODUCT DATA SHEET

Sika® Stabilizer-6018 TBM

Set accelerating admixture for cement/bentonite stabilized and retarded injection grouts

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

Sika® Stabilizer-6018 TBM is normally used in tunnel excavation with shielded tunnel boring machines (TBM).

The product is used for:

- The reactivation 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

FEATURES

- 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

Composition	Silicate Base	
Packaging	IBC Bulk deliveries	
Appearance and colour	Appearance	Liquid
	Colour	Clear to cloudy
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 +5 °C and +40 °C. Always refer to packaging.	
Density	1.37 – 1.39 kg/l	
pH-Value	11–12	

Viscosity 45 - 85 mPa-s @ 20° C

Solubility Soluble in water.

APPLICATION INFORMATION

Recommended dosage Typical dosage range of Sika® Stabilizer-6018 TBM is 40-130 kg per cubic meter of grout. Pre-trials to confirm the actual required dosage for the materials and mix design in use must be done by the user.

SYSTEM INFORMATION

Compatibility Compatible with Sika® admixtures and other Sika® products. Contact Sika Technical Services for additional information.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DISPENSING

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 gelling and setting time ideal for the project.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

Sika Australia Pty Limited
ABN 12 001 342 329
aus.sika.com
Tel: 1300 22 33 48

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