

PRODUCT DATA SHEET

Sika® Stabilizer-5010 TBM PH

Cement Hydration Control Admixture

DESCRIPTION

Sika® Stabilizer-5010 TBM PH is liquid admixture for stabilizing and retarding cement/bentonite grout. Sika® Stabilizer-5010 TBM PH is used as plasticizer and retarder to produce good quality concrete. Complies with ASTM C494 Type D.

USES

Sika® Stabilizer-5010 TBM PH is used in cement / bentonite injection grouts commonly used in back-filling operations during tunnels excavations with shield EPBM or TBM.

Sika® Stabilizer-5010 TBM PH is used in structural and mass concrete where long setting times and improved workability are required, such as projects with:

- Large pours, to prevent formation of cold joints
- Long travel time from the concrete plant to the site

- Difficult placing conditions and details
- High ambient temperature

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-5010 TBM PH has the following characteristics:

- Improve open time of cement/bentonite grout
- Reduce sedimentation of cement/bentonite grout
- Only set retarding, does not delay the hardening process
- Allow substantial cement reduction compared to plain concrete
- Increase in ultimate strength
- Good control of slump loss even at elevated ambient temperature
- Reduce shrinkage and creep

PRODUCT INFORMATION

Chemical Base	Blend of Lignosulfonates
Packaging	210 Liter Drum 1000 Liter Bulk
Shelf Life	12 months if stored properly in original unopened packaging
Storage Conditions	Stored in dry conditions, protected from direct sunlight and at temperature between +5°C and +30°C.
Appearance / Colour	Liquid – Dark Brown
Specific gravity	Approximately 1.06 - 1.12
pH-Value	5 - 7 (25°C)

APPLICATION INFORMATION

Recommended Dosage	0.2 - 2 Liters per 100kg of cement
Dispensing	Sika® Stabilizer-5010 TBM PH is either added to the gauging water prior to its addition to the dry concrete mix or added separately to wetted concrete mix, further mixing should take place for atleast 1 minute per m ³ . Curing: Effective measures for concrete curing must be followed.
Compatibility	Sika® Stabilizer-5010 TBM PH may be combined with all Sikament, Sika® AER, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and pre-mixed prior its addition.

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.

LIMITATIONS

Overdosing will result in increased workability and setting time of the concrete; however provided that curing is effective, ultimate concrete strength and properties will not be affected.
Use an appropriate concrete mixer and do not mix by hand.
Trial mixes are recommended to establish exact dosage rates required to suit individual requirements.

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.

LOCAL RESTRICTIONS

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

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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