

PRODUCT DATA SHEET

Sika® Stabilizer-5015 TBM PH

Stabilizer admixture with low environmental impact to improve the performance of two component backfill grouts.

DESCRIPTION

Sika® Stabilizer-5015 TBM PH is liquid stabilizer that delays the hydration process of the cement particles of the Component A of your twocomponent annulus grout for mechanized tunneling applications.

USES

Sika® Stabilizer-5015 TBM PH displays a longer open time effect than conventional stabilizers, improving the fluidity and workability of Component A, allowing long distance pumping. During its action, it delays the initial and final set of Component A in a longer and controlled manner.

Due to the improved delay of the hydration process, Sika Stabilizer-5015 TBM PH favors optimum conditions for improved strength characteristics of the final two-component grout.

- Increased compressive, tensile and flexural strength of grouts
- Increased density of grout mixes reducing permeability and thus increasing durability

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-5015 TBM PH has the following characteristics:

- Increase of stabilization, fluidity and pumping distance of Component A.
- Control of the initial set time of Component A.
- Highly effective in low cement content grouts, with high water cement ratio and flow.
- Higher open time: it enables the grout to be workable over a longer time than conventional stabilizers.
- The delay in setting time allows long storage of the annular grout in the pumping lines and grout agitator tanks on the TBM in a controlled manner.
- Avoid of clogging in pipelines and in the whole grout system over controlled time (time depends from mix design), i.e. in mixers, holding tanks, pumping system, pipelines and other equipment and plants.
- Excellent performance in hot weather, where the control of initial and final set times is important.

PRODUCT INFORMATION

Chemical Base	Polysaccharide derivatives
Packaging	210 Liter Drum 1000 Liter Bulk
Shelf Life	12 months from date of production
Storage Conditions	Store properly in unopened and undamaged original sealed container protected from moisture, in dry conditions at temperatures +5°C and +45°C. Protect from direct sunlight.
Specific gravity	Approximately 1.24 - 1.29

APPLICATION INFORMATION

Recommended Dosage	Whether in one or two-components grouts, specific Lab trials must be carried out to determine the optimum dosage of Sika® Stabilizer-5015 TBM PH. As a general guidance on dosage rates: <ul style="list-style-type: none">• Cementitious grouts for standard use: between 500ml and 750ml per 100kg• Cementitious grouts with higher retardation required: between 750ml and 1500ml per 100kg
Compatibility	Sika® Stabilizer-5015 TBM PH can be used with all types of Portland cement including those sulphate resisting (Type V). Sika® Stabilizer-5015 TBM PH should not be premixed with other admixtures. If other admixtures are to be used in annular grouts containing Sika® Stabilizer-5015 TBM PH, they must be dispensed separately.
Dispensing	Sika® Stabilizer-5015 TBM PH should be dispensed through a proprietary dispenser

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

Sika® Stabilizer-5015 TBM PH should be dispensed through a proprietary dispenser

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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