

PRODUCT DATA SHEET

Sika® Stabilizer-3710 TBM

Strong thickener for soil conditioning in EPB TBMs

DESCRIPTION

Sika® Stabilizer-3710 TBM is a strong, liquid polymer for use in EPB TBM applications. The polymer works as a binding agent which restructures heterogeneous soils with poor grading and low fines content, absorbs excess of ground water and increases soil plasticity and cohesion. This helps to improve the balance of pressure in the working chamber, leading to better ground stability and soil extraction.

USES

Sika® Stabilizer-3710 TBM is used for:

- Enhancing the performance of foaming agents in difficult ground conditions, such as coarse heterogeneous soil with low fine content, or saturated soil with high water pressure
- Sealing the excavation face during hyperbaric interventions in combination with the injection of bentonite or filler slurries

CHARACTERISTICS / ADVANTAGES

- Recommended in saturated grounds with low fines content
- Particularly effective in coarse, clean sands and gravels below groundwater
- Reduces soil permeability very quickly
- Increases the viscosity of the excavated muck
- Creates plastic deformation properties in the soil, which increases face stability
- Increases the cohesion of coarse sands and gravels
- Can be used as a lubricant for pipe jacking
- Ready for use: no mixing required

PRODUCT INFORMATION

Chemical Base	Modified anionic polyacrylamide
Packaging	1000 L (IBC)
Shelf Life	6 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 +35 °C. Always refer to the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.

Appearance / Colour	Liquid, white	
Density	~(1.040 - 1.060) kg/L	(EN ISO 2811-1)
Solubility	Miscible with water	

SYSTEM INFORMATION

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

Recommended Dosage	As a guide, the appropriate dosage of the Product is between 0.5–2.0 %. The consumption of the Product depends on the following parameters: <ul style="list-style-type: none"> ▪ Type of soil ▪ Amount of groundwater entering the excavation chamber ▪ TBM excavation mode ▪ TBM penetration rate ▪ TBM overburden Contact Sika Technical Services for additional information.
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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

APPLICATION

Preconditions

It is recommended to carry out preliminary laboratory trials to determine the optimum dosage.

1. **IMPORTANT** Do not inject the Product before the foam generator. Inject the Product in the TBM through a dedicated polymer line, separated from foam lines. If this is not available, use the foam lines after the generator.
2. Analyse the TBM data regularly to monitor Product performance.

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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.