

PRODUCT DATA SHEET

Sika® Stabilizer-1113 TBM CC

Foaming agent for soft grounds in Tunnel Boring Machines (TBM) applications

DESCRIPTION

Sika® Stabilizer-1113 TBM CC is a foaming agent used for soil conditioning in shielded TBMs.

USES

Sika® Stabilizer-1113 TBM CC is used to create a highly stable foam to hold the face pressure and maintain the rheology of the excavated ground.

Sika® Stabilizer-1113 TBM CC is used for:

Soft ground with medium to low groundwater pressure

FEATURES

- Particularly effective for soil conditioning in granular soils with high fines contents (i.e. < 0.063 mm)
- Creates plastic deformation properties in the soil, which provides increases face stability.
- Reduces inner friction and abrasiveness of the soil at the cutterhead and shield.
- Reduces wear costs
- Reduces power consumption
- Improves soil extraction and conveyance

PRODUCT INFORMATION

Composition	Surfactant
Packaging	1000 L tanks and bulk
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 35°C. Always refer to packaging. Do not allow the Product to freeze.
Appearance and colour	Liquid, transparent
Density	1.02 ± 0.025 kg/l (EN ISO 2811-1)
Solubility	Soluble in water

APPLICATION INFORMATION

Recommended dosage	Sika® Stabilizer-1113 TBM CC is used as an aqueous solution with a typical concentration of 1–3 %, depending on soils fines content and groundwater pressure. Contact Sika Technical Services for additional information.
Material temperature	Do not allow the product to freeze.

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 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

Sika® Stabilizer-1113 TBM CC can be used with the standard foam generators installed in all EPB machines. It can be injected at the cutting wheel to the front, into the TBM working chamber and in the screw conveyor.

1. Conduct preliminary trials in the laboratory to determine foam injection parameters, such as Concentration (Cf), FER and FIR.
2. Sika® Stabilizer-1113 TBM CC is used with the standard foam generators installed in all EPB machines. Inject it at the front of the cutterhead, into the excavation chamber or into the screw conveyor.
3. Analyse the TBM data regularly to monitor Product performance.

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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Product Data Sheet

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