

PRODUCT DATA SHEET

Sika® Stabilizer SLF 30

(formerly MasterRoc® SLF 30)

Soil Conditioning Foam for Tunnel Boring Machines (TBM)

DESCRIPTION

Sika® Stabilizer SLF 30 is a foaming agent especially designed for soil conditioning in shielded tunnel boring machines.

USES

- Soft ground tunneling

CHARACTERISTICS / ADVANTAGES

- Improved soil behavior
- Easier 'mucking'
- Reduced permeability and increased sealing at the face
- Creation of plastic deformation properties in the soil, which provides an even and controlled support pressure and increased face stability
- Lower inner friction and lower abrasiveness of the soil at the cutterhead through to the screw conveyor and conveyor. This reduces power consumption, enables soil extraction and conveyance, as well as reducing wear costs
- Reduced stickiness in certain soils, which would lead to blockage problems

PRODUCT INFORMATION

Packaging	Available in standard 1000 kg IBCs.
Shelf Life	If stored in original tightly closed containers, it will have a shelf life of 12 months
Storage Conditions	Must be stored between 5°C and 40°C.
Appearance / Colour	Clear Colorless, liquid
Density	1,035 - 1,045 kg/m ³ at 20°C
pH-Value	6,5 – 7,5 at 20°C

APPLICATION INFORMATION

Consumption	Typically, Sika® Stabilizer SLF 30 is used at 2 to 3% (range 1.5-4%) in water to make a solution. Sika® Stabilizer SLP 1 or Sika® Stabilizer SLP 2 polymers (see separate data sheets) can be jointly used with Sika® Stabilizer SLF 30 to strengthen the foam or adjust the properties of the excavated soil. For the first use and combination with other soil conditioning agents, please contact your local Sika representative.
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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 should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data

EQUIPMENT

Sika® Stabilizer SLF 30 can be used with standard TBM dosing and foaming equipment.

HANDLING

Do not mix pure Sika® Stabilizer SLF 30 with any other pure soil conditioning additives as this may cause immediate gel formation. If several foaming products or polymers are used on the TBM, it is preferable to reserve a specific transfer or dosing pump for Sika® Stabilizer SLF 30. If a transfer or dosing pump is being used for more than one product, it is recommended to clean the pump with water before switching to other products.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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