

PRODUCT DATA SHEET

Sika® Foam TBM-1000 Bio

CELLULOSE VISCOSIFIER AND STABILISER FOR FOAMS IN TBM - EPBM TUNNELLING

DESCRIPTION

Sika® Foam TBM-1000 Bio is a natural cellulose polymer powder viscosifier and stabiliser for foams and other water based fluids used in TBM tunnelling.

USES

- Viscosity and stabilising modifier agent that replaces bentonite during the batching of no solids fluids
- Inhibiting the swelling of clays to avoid changes in viscosity of the drilling fluids

CHARACTERISTICS / ADVANTAGES

- Good foam stabilising properties
- Improves compactness of foams during and after injection
- Good fluid cooling and lubricating effects which reduces the drilling head torque
- Easy to handle
- Good tolerance to hydrocarbon contaminated soils and with ground compounds containing a wide variety of ions such as Magnesium, Calcium, Sulphates and Chlorides

PRODUCT INFORMATION

Chemical Base	Natural cellulose polymer
Packaging	25 kg bags
Appearance / Colour	Powder / white - light grey
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 +40 °C. Always refer to packaging. Protect against direct sunlight, rain and humidity.
Bulk Density	0.600 ± 0.10 kg/l
pH-Value	7 ± 1.0

TECHNICAL INFORMATION

Specific Advice	Moisture	8 % maximum
	Dispersability	Very good

SYSTEM INFORMATION

Compatibility	Compatible with all Sika® Foams in TBM range Contact Sika Technical Services for additional information.
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APPLICATION INFORMATION

Recommended Dosage

Foam stabilizer

0.2–1.0 % by weight

Viscosity modifier for slurry

0.2–0.5 % by weight

Support by Sika Technical Services is recommended.

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.

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.

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.

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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