

PRODUCT DATA SHEET

Sika® Stabilizer ABR 2

(formerly MasterRoc® ABR 2)

Anti Abrasion and Dust Fighting Agent for Tunnel Boring Machines

DESCRIPTION

Sika® Stabilizer ABR 2 is a liquid product, specifically designed for tunnel boring machines (TBM) operating in hard rock respectively abrasive ground.

USES

- Especially used on highly abrasive surfaces
- On hard rock surfaces where dusting is a problem
- On hard rock surfaces to reduce disc consumption.

CHARACTERISTICS / ADVANTAGES

- Effective reduction of dust formation, leading to considerably improved working environment for the operators
- Improved transfer of the muck from the cutter head, resulting in reduced risk of blockage, cleaner cutter discs and cutterhead area, which make maintenance easier and reduce cutter disc changing time
- Protection of the screw conveyor
- Reduction of abrasive wear for cutting tools
- Improved cooling of the cutter head, improving the rubber seal durability, and extending the life of the cutter bearing assembly

PRODUCT INFORMATION

Packaging	IBC's.
Appearance / Colour	Transparent, liquid.
Shelf Life	Under appropriate storage conditions, it is 12 months from the date of production. Opened packages can be resealed and used throughout their shelf life.
Storage Conditions	Should be stored between 5°C and 35°C.
Density	1,01 - 1,05 g/cm ³ at 20°C
pH-Value	5,00 - 9,00

Viscosity Max. 500 mPa,s at 20°C

Solubility Complete dissolution

APPLICATION INFORMATION

Recommended Dosage

Sika® Stabilizer ABR 2 is made as a 1.5-6.0% nutrient aqueous solution (1.5 kg Sika® Stabilizer ABR 2 + 98.5 kg water - 6 kg Sika® Stabilizer ABR 2 + 94 kg water). Depending on the excavated ground and need, dosages, mixing amounts, foam expansion and foam injection factors are adjusted in the TBM machine. For detailed information, please consult local Sika Technical Service.

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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION

The foam polymer aqueous solutions are prepared for use by mixing air into them using a foam generator. In order to expand the polymer solution further, the amount of air mixed into the solution must be increased. Foam expansion factor (FER) and foam injection factor (FIR) are determined by field tests depending on ground conditions.

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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