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MasterRoc® SLF 33 (Formerly known as Meyco® SLF 33)

Soil Conditioning Foam for Tunnel Boring Machines (TBM)

DESCRIPTION OF PRODUCT

MasterRoc® SLF 33 is a foaming agent especially designed for soil conditioning in shielded tunnel boring machines.

FIELDS OF APPLICATION

- Soft ground tunneling

FEATURES AND BENEFITS

- 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.

APPLICATION PROCEDURE

An aqueous solution of **MasterRoc® SLF 33** can be expanded with air to produce a stable foam. The foam expansion and the foam injection rate onto the face, into the working chamber or screw conveyor will depend on the soil conditions encountered.

CONSUMPTION

Typically, **MasterRoc® SLF 33** is used at 2 to 3% (range 1.5-4%) in water to make a solution. **MasterRoc® SLP 1** or **MasterRoc® SLP 2** polymers (see separate data sheets) can be jointly used with **MasterRoc® SLF 33** 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 **BASF** representative.

PACKAGING

MasterRoc® SLF 30 is available in standard 1000 kg IBCs.

TECHNICAL DATA

Form	Liquid
Color	Clear Colorless
Density [kg/m ³] 20°C	1035 -1045
Viscosity [mPas] 20°C	100
pH (5% solution) 20°C	6.5 - 7.5
Solubility in Water	Total



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FOAM EQUIPMENT

MasterRoc® SLF 33 can be used with standard TBM dosing and foaming equipment.

HANDLING

Do not mix pure **MasterRoc® SLF 33** 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 **MasterRoc® SLF 33**. 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.

STORAGE

MasterRoc® SLF 33 must be stored between 5°C and 40°C. If stored in original tightly closed containers, it will have a shelf life of 12 months. Do not allow the product to freeze. Please contact your local **BASF** representative prior to the use of any product that has frozen.

SAFETY PRECAUTIONS

MasterRoc® SLF 33 contains no hazardous substances. However, standard precautions for handling chemical products should be observed. Avoid eye and skin contact and wear rubber gloves and safety glasses. If contact occurs, rinse with plenty of water. In case of eye contact seek medical advice. For further information, refer to the Material Safety Data Sheet.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **BASF Türk Kimya Sanayi ve Tic. Ltd. Şti.** is only responsible for the quality of the product. **BASF Türk Kimya Sanayi ve Tic. Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

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