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MasterRoc® ACP 143 (Formerly known as Rheosoil® 143)

Anti-Clay Polymer for Earth Pressure (TBM)

DESCRIPTION OF PRODUCT

MasterRoc® ACP 143 is a liquid polymer, specially designed for clayey soils with clogging and adhesion.

FIELDS OF APPLICATION

MasterRoc® ACP 143 creates a stable foam and can be used with the standard foam generators installed on EPB machines. It can be injected at the cutterhead, into the working chamber and screw conveyor.

FEATURES AND BENEFITS

- Reduction of clogging and adhesion effects on the cutterhead
- Creation of a plastic soil material which can be easily excavated and transported
- Avoiding re-agglomeration of clay chips to blocks
- Reduction of cutterhead torque
- Increase in TBM speed

APPLICATION PROCEDURE

MasterRoc® ACP 143 is used as an aqueous solution with typically 3 % concentration. Injected via a foam generator, the typical foam expansion ratio (FER) varies between 8 and 20, and the foam injection ratio (FIR) between 30 and 80. If the consistency of the muck needs to be reduced, **MasterRoc® SLP 1** or **MasterRoc® SLP 2** polymers can be used in combination with **MasterRoc® ACP 143**. For the first use and combination with other soil conditioning please contact your local **BASF** representative.

PACKAGING

MasterRoc® ACP 143 is available in 1000kg IBCs.

DOSING SYSTEM

MasterRoc® ACP 143 can be used with the standard TBM dosing and foaming equipment.

TECHNICAL DATA

Form	Liquid
Color	Light Brown
Density (20°C, g/cm³)	1.042 ± 0.02
Viscosity (20°C, Brookfield Sp.00)	<160 mPa.s
pH (3% solution, 20°C)	7 ± 1





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HANDLING

Do not mix pure **MasterRoc® ACP 143** 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® ACP 143**. If a transfer or dosing pump is being used for more than one product, the pump should be cleaned with water before switching to other products.

STORAGE

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. It is recommended that your local representative be consulted prior to the use of any product that has become frozen.

SAFETY PRECAUTIONS

Standard precautions for handling chemical products should be observed: Avoid eye and skin contact and wear rubber gloves and safety glasses. 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.

Contact Information

BASF Türk Kimya San. ve Tic. Ltd. Şti.
Yapı Kimyasalları Bölümü
Tel: 0216 570 34 00
Fax: 0216 570 37 79
Mail: info@master-builders-solutions-turkey.com
www.master-builders-solutions.basf.com.tr

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