

RHEOSOIL[®] 143

Anti-clay-polymer for earth pressure TBM

Product description

RHEOSOIL[®] 143 is a liquid polymer, especially designed for clayey soils with clogging and adhesion potential.

Fields of application

RHEOSOIL[®] 143 creates a stable foam and can be used with the standard foam generators installed on EPB machines. It is designed to reduce the clogging and adhesion potential of clayey soils. RHEOSOIL[®] 143 can be injected in the cutterhead, working chamber and screw conveyor.

Features and benefits

RHEOSOIL[®] 143 has the following benefits:

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

Packaging

RHEOSOIL[®] 143 is available in 250kg drums and 1000kg IBCs.

Technical data (typical properties)

form	liquid
color	light brown
Density (20°C, g/cm ³)	1,042 ± 0,02
Viscosity (20°C, Brookfield Sp.00)	< 160 mPas
pH	7 ± 1

Application procedure

RHEOSOIL[®] 143 is used as aqueous solution with 3% concentration typically. Injected via a foam generator, the typical foam expansion ratio (FER) varies between 8 and 20, the typical foam injection ratio (FIR) from 30-80.

In case of necessary consistency reduction of the muck, MEYCO[®] SLF P1 or MEYCO[®] SLF P2 can be used in combination with RHEOSOIL[®] 143.

For the first use and combination with other soil conditioning agents, it is strongly recommended to contact the local UGC personal.

Dosing system

RHEOSOIL[®] 143 can be used with the standard TBM dosing and foaming equipment.

Storage

The storage temperature of RHEOSOIL[®] 143 is between 5°C and 40°C. If stored in original tightly closed containers RHEOSOIL[®] 143 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.



The Chemical Company

RHEOSOIL[®] 143

Safety precautions

RHEOSOIL[®] 143 contain no hazardous substances requiring labeling. However, standard precautions for handling chemical products should be observed: Avoid eye and skin contact and wear rubber gloves and goggles.

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.

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