

# MasterRoc<sup>®</sup> SLP 1

## Liquid polymer for soil conditioning in Tunnel Boring Machines (TBM)

### DESCRIPTION

**MasterRoc SLP 1** is a polymer which is used to enhance the performance of **MasterRoc SLF** foam products under difficult ground conditions.

### FIELDS OF APPLICATION

- EPB shield machines
- Poorly graded and water saturated ground

### FEATURES AND BENEFITS

- Tackling water problems in ground containing fine sand or silt.
- Reducing soil permeability.
- Creation of plastic deformation properties in the soil which provides an even and controlled support pressure and increased face stability.
- Lowering inner friction and abrasiveness of the soil.
- Increasing cohesion of coarser sands and sandy gravels.
- Strong viscosifying effect, turning wet soil into a more manageable consistency.
- When injected directly into the screw conveyor, it helps the formation of the “plug”.
- Ready to use - no mixing equipment required.

### PACKAGING

**MasterRoc SLP 1** is available in standard 200 liter drums, or 1000 liter IBCs.

### TECHNICAL DATA\*

Form	Liquid
Colour	Transparent
Density [kg/m <sup>3</sup> ] 20°C	1035 - 1045
pH 20°C	6.5 – 7.5
Solubility in water	Total

### APPLICATION PROCEDURE

**MasterRoc SLP 1** can be added to the foaming solution.

**MasterRoc SLP 1** can also be used independently, in which case it is injected into the working chamber or screw conveyor.

The quantity of **MasterRoc SLP 1** polymer needed depends on the soil conditions.

For the combination with other soil conditioning agents, please contact your local BASF representative.

### CONSUMPTION

The typical consumption of **MasterRoc SLP 1** is between 0.2 – 2 kg/m<sup>3</sup> of soil (in situ). Other dosage levels may also be appropriate - please consult your local BASF representative.

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## STORAGE

**MasterRoc SLP 1** must be stored between 5°C and 35°C. If stored in original 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 SLP 1** 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 skin 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.

\* Properties listed are based on laboratory controlled tests.

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