

# MasterRoc<sup>®</sup> SLP I

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

## Material Description

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

## Areas of Application

- EPB shield machines
- Poorly graded and water saturated ground

## Characteristics 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 I is available in standard 200-liter drums, or 1000 liter IBCs.

## Technical Data

Form	Liquid
Color	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 I can be added to the foaming solution. MasterRoc SLP I can also be used independently, in which case it is injected into the working chamber or screw conveyor. The quantity of MasterRoc SLP I polymer needed depends on the soil conditions. For the combination with other soil conditioning agents, please contact your local Master Builders Solutions representative.

## Consumption

The typical consumption of MasterRoc SLP I 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 Master Builders Solutions representative.

## Storage

MasterRoc SLP I 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 Master Builders Solutions representative prior to the use of any product that has frozen.

## Precautions

MasterRoc SLP I 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.

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## Disclaimer

The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact your local representative.

## Headquarters:

Master Builders Solutions Deutschland GmbH  
Glücksteinallee 43-45  
68163 Mannheim  
Germany

[ugc@masterbuilders.com](mailto:ugc@masterbuilders.com)

For more information, visit us: <https://ugc.master-builders-solutions.com/en/>