

MasterRoc[®] SLP 1

Liquid Polymer for Soil Conditioning in Tunnel Boring Machines (TBM)

Material Description

MasterRoc[®] SLP 1 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.

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 Master Builders Solutions representative.

Packaging

MasterRoc[®] SLP 1 is available in standard 200-liter drums, or 1000 liter IBCs.

Consumption

The typical consumption of MasterRoc[®] SLP 1 is between 0.2 – 2 kg/m³ of soil (in situ). Other dosage levels may also be appropriate - please consult your local Master Builders Solutions representative.

Storage and Shelf Life

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

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.

Technical Properties

Form	Liquid
Color	Transparent
Specific Gravity (20°C)	1035 - 1045 kg/m ³
pH – Value (20°C)	6,5 – 7,5
Solubility in Water	Total

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Health and Safety

For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapor until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Disclaimer

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** 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

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