

MasterRoc[®] SLP 2

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

PRODUCT DESCRIPTION

MasterRoc SLP 2 is a polymer which is used to enhance the performance of MasterRoc SLF foam products in difficult ground conditions, for example, in coarse soil with low fine content, or saturated soil with high water pressure. It can also be used to modify the properties of Bentonite slurries for slurry TBM applications.

FIELDS OF APPLICATION

- EPB and Slurry TBMs
- High ground water pressures, poorly graded or-ground containing low amount of fine particles, water saturated ground, and
- Bentonite slurry modification in case of high soil-porosity or saline water conditions

FEATURES AND BENEFITS

- Structuring the soil, particularly effective in, coarse, clean sands and gravels below ground water.
- Reducing soil permeability.
- Creation of plastic deformation properties in the soil providing an even and controlled support pressure and increased face stability.
- Lowering the inner friction and abrasiveness of the soil. Increasing cohesion of coarse sand sand gravels.
- Water soaking and swelling effect, turning wet soil into a low consistency.
- Improves the yield and filter cake properties of bentonite slurries.
- Ready to use - no mixing equipment required.

PACKAGING

MasterRoc SLP 2 is available in standard 200 liter drums and 1000 liter IBCs.

TECHNICAL DATA

Form	Liquid
Color	Light Brown
Density [kg/m ³] 20°C	900-950
pH 20°C	8.5-10.5
Viscosity [mPa.s] 20°C	< 500
Brookfield LV 30 Needle 3	
Solubility in water	Miscible

APPLICATION PROCEDURE

MasterRoc SLP 2 can be added by a separate dosing pump into the foaming solution.

MasterRoc SLP 2 can also be used independently, in which case it is injected directly to the working chamber or the screw conveyor.

The quantity of **MasterRoc SLP 2** 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 2** 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

The storage temperature of **MasterRoc SLP 2** is between 5°C and 35°C. If stored in original, tightly closed containers under the above conditions, it will have a shelf life of 6 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.

SAFETY PRECAUTIONS

MasterRoc SLP 2 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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STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this Master Builders Solutions publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by Master Builders Solutions either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Master Builders Solutions, are responsible for carrying out procedures appropriate to a specific application.

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