

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 groundwater.
- 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 sands and 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 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 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 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.

MasterRoc[®] SLP 2

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.

Master Builders Solutions Hong Kong Ltd

Unit 2, 20/F, EW International Tower
120-124 Texaco Road, Tsuen Wan, N.T.,
Hong Kong

Phone +852 2408 4400

Fax +852 2408 4401