

MasterRoc[®] SWA 710

Strong Thickener for Soil Conditioning in Tunnel Boring Machines (TBM)

DESCRIPTION

MasterRoc[®] SWA 710 is a liquid polymer, which is specifically designed for its use in ground and slurry conditioning. **MasterRoc[®] SWA 710** works as a binding agent restructuring the soil with a poor grading and low fines content, increasing its plasticity and cohesion, which helps to improve the balance of pressure in the working chamber, leading to better ground stability and soil extraction. **MasterRoc[®] SWA 710** can be used to enhance the performance of **MasterRoc SLF** foams and ACP soil conditioning products in difficult ground conditions, for example, in coarse soil with low fine content, or saturated soil with high water pressure. **MasterRoc[®] SWA 710** is also suitable to use for an adequate sealing of the excavation face during hyperbaric interventions in combination with the injection of bentonite or filler slurries.

TYPICAL APPLICATIONS

- 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.
- Improving the yield and filter cake properties of bentonite and filler slurries.
- Lubricant for pipe jacking.

ADVANTAGES

- 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
- Improves the yield and filter cake properties of bentonite slurries
- Ready to use - no mixing equipment required

PACKAGING

MasterRoc[®] SWA 710 is available in 1000 L IBC's.

TYPICAL PROPERTIES*

Form	Liquid
Color	White
Density @ 20°C	1.05 kg/m ³
pH @ 20°C	7
Viscosity (DIN EN ISO 3219, 23°C, 250 1/s)	750 mPa.s
Solubility in water	Miscible

APPLICATION GUIDELINES

MasterRoc[®] SWA 710 should be used independently, in which case it is injected directly to the working chamber or the screw conveyor.

The quantity of **MasterRoc[®] SWA 710** polymer needed depends on the soil conditions.

For the combination with other soil conditioning agents, please contact your local Master Builders Solutions representative.

CONSUMPTION

Trials should be conducted to determine the optimum concentration of polymer. The dosage depends on the application field and the amount of water content in slurry or excavated ground – please consult your local Master Builders Solutions representative.

STORAGE AND SHELF LIFE

The storage temperature of **MasterRoc[®] SWA 710** 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.

MasterRoc[®] SWA 710

HEALTH AND SAFETY

MasterRoc[®] SWA 710 contains no hazardous substances. However, standard precautions for handling chemical products should be observed. Avoid eye and skin contact and wear rubber gloves. For further information, refer to the Material Safety Data Sheet.

QUALITY AND CARE

All products originating from Master Builders Solutions Dubai, UAE facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001 and ISO 14001.

* Properties listed are based on laboratory controlled tests.

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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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