

# MasterRoc<sup>®</sup> SLF 200

High performance foaming agent for difficult heterogeneous grounds with variable range of permeability, readily biodegradable for Tunnel Boring Machines.

## Material Description

MasterRoc SLF 200 is a polymer enriched foaming agent, specially designed to improve the performance and control of the soil through the screw conveyor under the toughest conditions.

## Areas of Application

MasterRoc SLF 200 creates a stable foam to hold the face pressure and maintain the rheology of the excavated ground longer than conventional foaming agents. MasterRoc SLF 200 can be used with the standard foam generators installed on EPB machines. It can be injected at the cutterhead, into the working chamber and screw conveyor. Designed for heterogeneous grounds.

## Characteristics and Benefits

- Improved soil behavior
- Easier 'mucking'
- Reduced soil permeability
- Creation of plastic deformation properties in the soil, which provides controlled support pressure and increased face stability
- Lower inner friction and lower abrasiveness of the soil at the cutterhead
- Reduced stickiness of certain soils, which would lead otherwise to blockage problems

## Packaging

MasterRoc SLF 200 is available in standard 1000 liters IBC and bulk.

## Technical Data

Form	Liquid
Color	Transparent
Density (g/cm <sup>3</sup> at 20°C)	1.02 – 1.04
pH 20°C	6 – 8
Viscosity	≤ 100 mPas

## Application Procedure

MasterRoc<sup>®</sup>SLF 200 is used as aqueous solution with a typical 1% to 3% concentration. Injected by a foam generator, the typical foam expansion ratio (FER) varies between 8 and 20, and the foam injection ratio (FIR) between 30 and 80. If the consistency of the muck needs to be reduced, MasterRoc SWA polymers can be used in combination with MasterRoc SLF 200. For the first use and combination with other soil conditioning agents, please contact your local Master Builders Solutions representative.

## Storage

Must be stored between 10°C and 40°C. If stored in original tightly closed containers, it will have a shelf life of 12 months. Do not allow the product to freeze. Please contact your local Master Builders representative prior to the use of any product that has become frozen. If it is stored below 10 °C, it can be fully recovered by bringing it back to the 10-40 °C range.

## Ecological Information

MasterRoc SLF 200 is eco-friendly and highly biodegradable as per international standards. Please consult Master Builders Solution Safety Data Sheet.

## Product Disposal Information

Deposition of excavated material conditioned with MasterRoc SLF 200 on a landfill for inert materials as per Council Directive 1999/31/EC dated 26.04.1999 on the landfill of waste (OJ L 182, 16.07.1999) shall be possible in any case.



# MasterRoc<sup>®</sup> SLF 200

High performance foaming agent for difficult heterogeneous grounds with variable range of permeability, readily biodegradable for Tunnel Boring Machines.

## 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/>

