

MasterRoc SLF 32

Foaming agent for TBM applications

Product description

MasterRoc SLF 32 is a foaming agent specifically designed for the conditioning of soils excavated with a shielded TBM.

Fields of application

- In the excavation, carried out with TBM, of not very consistent soils.
- In the excavation of loose granular soils in groundwater.

Features and benefits

- Improves the behaviour of the terrain at the front
- Facilitates the extraction of excavated soil
- It is an environmentally friendly product

MasterRoc SLF 32 has been specifically formulated for excavations carried out with TBMs equipped with a shield. Particularly indicated in improving the consistency of a soil, the product is effective when applied in well-cleaned gravels and coarse sands. Generally when mixed with the foams of the MasterRoc SLF line it provides:

- reduce permeability and increase the cohesion of the soil in front of the excavation;
- improve the plastic deformation properties of the ground, exerting a uniform pressure on the support which favors the support of the front;
- increase cohesion in gravels and coarse sands with little fines and thus facilitate the extraction of the soil;
- bring saturated soil to a manageable consistency, thanks to the high absorption capacity and swelling effect;

- ecologically compatible;
- product ready for use, does not require a mixing plant, can be applied directly to the ground without the need to mix it with the foams of the MasterRoc SLF line;
- it is easy to dose to adapt to the prevailing conditions of the soil to be treated.

Packaging

MasterRoc SLF 32: 1018 kg tanks and in bulk.

Consumption

The typical use of MasterRoc SLF 32 in aqueous solution is in a variable percentage from 1% to 3% (example: 1.5 parts of product + 98.5 parts of water represents the 1.5% solution). Typically, the typical use varies between 1.2 and 2%.

The MasterRoc SLP 1 or P2 polymer can be added to MasterRoc SLF 32 in order to strengthen the action of the foam in the treatment of particularly difficult soils, facilitating their excavation and extraction.

Storage

The storage temperature of the MasterRoc SLF 32 is between 5° and 35°C.

If closed in its original containers under the above conditions, the product has a minimum shelf life of 12 months. Do not freeze the product.

Technical Information	
Form	Liquid, viscous
Color	No colour, light yellow
Density (+20°C)	Density at 20 ° C, kg / m ³ 1035-1045
pH value (1:1 water solution)	pH at 20 ° C 6.5-7.5
Total water solubility	total
Viscosity , mPa·s Brookfield LV 30 Needle 3	100

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Application procedure

The foam is always produced by introducing air into the aqueous solution, containing the MasterRoc SLF 32, to give rise to a stable foam.

The concentration of the foaming additive in the solution, the expansion factor (FER) of the foam and the injection factor (FIR) of the same at the face, in the excavation chamber or in the auger will depend on the nature and conditions of the excavated substrate, the speed of advancement and the dimensions of the mechanized cutter

Warnings

MasterRoc products are for professional use. For further information, consult the Master Builders Solutions Italia Spa area technician.

Safety information

For information on the correct and safe use, transport, storage and disposal of the product, consult the most recent Safety Data Sheet.

Disclaimer

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.

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Other services

For additional technical information, brochures, references, technical reports and technical support please visit www.master-builders-solutions.com/it-it or alternatively contact infomac@masterbuilders.com.

Scan QR code to visit the product page and download the latest version of this technical data sheet and any additional documentation.

