

MEYCO® FIX SLF30

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Soil conditioning foam for Tunnel Boring Machines

Product description

MEYCO® Fix SLF 30 is a foaming agent especially designed for soil conditioning in Shielded Tunnel Boring Machines.

Fields of application

- Soft ground tunnelling with Tunnel Boring Machines
- Dust suppression in Hard Rock tunneling

Features and benefits

- Improved soil behaviour
- Easier 'mucking'
- Environmentally friendly

MEYCO® Fix SLF 30 has been especially developed for soil conditioning in tunnelling with shielded TBM excavation. Generally the product when mixed with the soil, provides for:

- Reduced permeability and increased sealing at the face
- Creation of plastic deformation properties in the soil, which provides an even and controlled support pressure and increased face stability
- Lower inner friction and lower abrasiveness of the soil at the cutterhead through to the screw conveyor and conveyor. This reduces power consumption; enables soil extraction and conveyance, as well as reducing wear costs.
- Reduces stickiness in certain soils, which would lead to problems with blockage

- In hard rock tunnelling and mining it can be used for dust suppression

Packaging

MEYCO® Fix SLF 30 is available in standard 200 litre drums.

Bulk tanker or 1000 litre polytank supply is available on request.

Technical data

Form	Liquid
Colour Pale	Yellow
Density; kg/m ³ ; 20°C	1035 -1045
pH ; 20°C	6.5-7.5
Solubility in water	Total

Application procedure

A foam is produced by dispersion of air into an aqueous solution of the MEYCO® Fix SLF 30. MEYCO® Fix SLF 30 foam solution can be expanded with air to produce a stable foam. The foam recipe, foam expansion and the foam injection rate into the face, working chamber or screw conveyor will depend on soil conditions encountered.

Consumption

Typically the MEYCO® Fix SLF 30 is made into a 2 – 3% (typical range 2 – 6%) solution in water. MEYCO® Fix SLF P1 or MEYCO® Fix SLF P2 (see separate data sheets) can be added with the MEYCO® Fix SLF 30 to strength the foam or adjust the properties of the excavated soil.

Storage

The storage temperature of MEYCO® Fix SLF 30 is between 5°C and 35°C. If stored in original tightly closed containers MEYCO® Fix SLF 30 will have a shelf life of 12 months. Do not allow the product to freeze. It is recommended that your local UGC representative be consulted prior to the use of any product that has become frozen.

Safety precautions

MEYCO® Fix SLF 30 contain no hazardous substances requiring labeling. However, standard precautions for handling chemical products should be observed: Avoid eye and skin contact and wear rubber gloves and goggles.

If 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. A Risk Assessment report on the use of MEYCO Fix SLF products in tunnels can be for downloaded from the UGC website. Or ask your UGC MBT representative for a copy.