

# MEYCO<sup>®</sup> SLF 30

## Soil conditioning foam for Tunnel Boring Machines

### Product description

MEYCO<sup>®</sup> 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 tunnelling

### Features and benefits

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

MEYCO<sup>®</sup> 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 internal friction and lower abrasiveness of the soil from 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<sup>®</sup> SLF 30 is available in standard 1000 litre polytanks. Bulk tanker or 200 litre drum supply is available on request.

### Technical data

Form	Liquid
Colour	Clear colourless
Density [kg/m <sup>3</sup> ] 20°C	1035 -1045
Viscosity [mPas] 20°C	100
pH (5% solution) 20°C	6.5 – 7.5
Solubility in water	Total

### Application procedure

Foam is produced by dispersion of air into an aqueous solution of the MEYCO<sup>®</sup> SLF 30.

MEYCO<sup>®</sup> 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<sup>®</sup> SLF 30 is made into a 2 – 3% (typical range 1.5 – 4%) solution in water.

MEYCO<sup>®</sup> SLF P1 or MEYCO<sup>®</sup> SLF P2 (see separate data sheets) can be added with the MEYCO<sup>®</sup> SLF 30 to strength the foam or adjust the properties of the excavated soil.

### Storage

The storage temperature of MEYCO<sup>®</sup> SLF 30 is between 5°C and 40°C. If stored in original tightly closed containers MEYCO<sup>®</sup> SLF 30 will have a shelf life of 12 months.

Do not allow the product to freeze.



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It is recommended that your local representative be consulted prior to the use of any product that has become frozen.

## **Safety precautions**

MEYCO<sup>®</sup> SLF 30 contains 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<sup>®</sup> SLF products in tunnels can be downloaded from the MEYCO website. Or ask your representative for a copy.

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[www.meyco.basf.com](http://www.meyco.basf.com)

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