

# MEYCO<sup>®</sup> SLF 30

## Soil conditioning foam for Tunnel Boring Machines

### Description

MEYCO SLF 30 is a foaming agent especially designed for soil conditioning in shielded tunnel boring machines.

### Uses

- Soft ground tunnelling with Tunnel Boring Machines
- Dust suppression in hard rock tunnelling

### Advantages

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

MEYCO 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 cutter head 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.

### Typical properties

Aspect	: Clear colourless liquid
Density (kg/m <sup>3</sup> )	: 1.04 ± 0.01 at 20° C
pH	: ≥ 6
Viscosity	: 700 ± 200 cPs at 20° C
Solubility in water	: Total

### Directions for use

Foam is produced by dispersion of air into an aqueous solution of the MEYCO SLF 30.

MEYCO SLF 30 foam solution can be expanded with air to produce 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.

### Coverage

Typically the MEYCO SLF 30 is made into a 2-3% (typical range 1.5 - 4%) solution in water.

MEYCO SLF P1 or MEYCO SLF P2 (see separate datasheet) can be added with the MEYCO SLF 30 to strengthen the foam or adjust the properties of the excavated soil.

### Packaging

MEYCO SLF 30 is available in standard 220 Kg drums. Bulk tankers or 1000 Kg polytank supply is available on request.

### Storage and Shelf life

The storage temperature of MEYCO SLF 30 is between 5°C and 40°C. If stored in original tightly closed containers

MEYCO SLF 30 will have a shelf life of 12 months. Do not allow the product to freeze.

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

### Safety precautions

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs (which can also be tainted with vapour until product fully cured or dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use. Do not reuse containers for storage of consumable item. For further information refer to the material safety data sheet. MSDS available on demand or on BASF construction chemicals web site.

### Note

All BASF Technical Data Sheets are updated on regular basis; it is the user's responsibility, to obtain the most recent issue.

Field services where provided, does not constitute supervisory responsibility, for additional information contact your local BASF representative.

### Disclaimer

Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, our representatives or distributors, as the conditions of use and the competence of any labour involved in the application are beyond our control.

PDS Ref. no.: MycSLF30/03/0309

### BASF India Limited

#### Construction Chemicals Division

Plot No.37, Chandivali Farm Road, Chandivali, Andheri(East)

Mumbai – 400072 India

Tel: +91 22 28580200, Fax: +91 22 28478381

e-mail: basfcc@vsnl.net

[www.basf-cc.co.in](http://www.basf-cc.co.in)

Page 1 of 1

