

# MEYCO<sup>®</sup> SLF P2

## Liquid Polymer for soil conditioning in Tunnel Boring Machines

### Product description

MEYCO<sup>®</sup> SLF P2 is a polymer in liquid form, which is used to enhance the performance of MEYCO<sup>®</sup> SLF products in difficult ground conditions, for example, in coarse soil with low fine content, or saturated soil with high water pressure.

MEYCO<sup>®</sup> SLF P2 can also be used to modify the properties of Bentonite slurries for slurry TBM applications.

### Fields of application

- Soil conditioning in EPB shield machines
- Particularly recommended for poorly graded and low fine ground, saturated ground, and high water pressure ground in EPB shield machines
- For Bentonite slurry modification in slurry shield machines in case of high soil porosity or saline water conditions

### Features and benefits

MEYCO<sup>®</sup> SLF P2 has been specifically developed for soil conditioning with shielded TBM excavation. It has excellent performance in restructuring the soil, and is particularly effective in coarse, clean sands and gravels. Generally the product, when mixed with one of the MEYCO<sup>®</sup> SLF foam products, 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. This reduces power consumption and wear to the tools

- Increased cohesion of coarse, clean sands and gravels, therefore smoother soil extraction
- Water soaking and swelling effect, turning wet soil into a more manageable consistency
- Improving the yield and filter cake properties of bentonite slurries; Suitable for bentonite slurries in saline conditions
- Environmentally friendly
- Ready to use - no mixing equipment required
- Easy to dose, and easy to adjust the quantity to suit the prevailing soil conditions

### Packaging

MEYCO<sup>®</sup> SLF P2 is available in standard 200 litre drums and 1000 litre polytanks.

### Technical data

Form	Viscous Liquid
Color	Light Brown
Density [kg/m <sup>3</sup> ] 20°C	900 - 950
pH 20°C	8.5 - 10.5
Viscosity [mPas] 20°C Brookfield LV 30 Needle 3	< 500
Solubility in water	Miscible

### Application procedure

MEYCO<sup>®</sup> SLF P2 is normally added through a separate pump into the foam solution stream before the foam generator. The mixture is then generated into a foam by the foam generator, and is injected into the cutterhead and working chamber.



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MEYCO<sup>®</sup> SLF P2 can also be used alone, in which case it is injected directly to the working chamber or the bottom of the screw conveyor.

The quantity of MEYCO<sup>®</sup> SLF P2 used depends on the soil condition.

## Consumption

Typically the consumption of MEYCO<sup>®</sup> SLF P2 is between 0.3 – 4% on the foam solution (0.2 – 2 kg/m<sup>3</sup> on the volume of soil excavated). Other dosage levels may be appropriate in certain circumstances and requires consultation with your local representative.

## Storage

The storage temperature of MEYCO<sup>®</sup> SLF P2 is between 5°C and 35°C. If stored in original, tightly closed containers under the above conditions MEYCO<sup>®</sup> SLF P2 will have a shelf life of 6 months. Do not allow the product to freeze. 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 P2 contains no hazardous substances requiring labelling. However, standard precautions for handling chemical products should be observed. Avoid eye and skin contact and wear rubber gloves and goggles. If skin 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. Alternatively ask your local representative for a copy.

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