

MEYCO[®] SLF P1

Liquid Polymer for soil conditioning in Tunnel Boring Machines

Product description

MEYCO[®] SLF P1 is a lubricating polymer in liquid form, which is used to enhance the performance of MEYCO[®] SLF foam products under difficult ground conditions, for example, in ground containing fine sand, silt or clay with high water content.

It is used where the water content in the soil increases and foam alone is inadequate to modify the soil properties.

Fields of application

- Soil conditioning in EPB shield machines
- Particularly recommended for poorly graded and saturated ground in EPB shield machines

Features and benefits

MEYCO[®] SLF P1 has been specifically developed for soil conditioning with shielded TBM excavation. It has excellent performance in restructuring the soil, and is effective in tackling water problems in ground containing fine sand, silt or clay. Generally, when mixed with one of the MEYCO[®] SLF foam products, it 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

- Strong viscosifying effect, turning wet soil into a more manageable consistency
- When injected directly into the screw conveyor, it helps the formation of the “plug”
- 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[®] SLF P1 is available in standard 200 litre drums, or 1000 liter containers.

*Technical data

Form	Liquid
Colour	Transparent
Density [kg/m ³] @ 25°C [typical value]	1.035
pH @ 25°C [typical value]	8.5
Solubility in water	total

Application procedure

MEYCO[®] SLF P1 can be added to the foam solution before or during foam generation or after the foam has been created before injection to the cutterhead or working chamber.

MEYCO[®] SLF P1 can also be used independently, in which case it is injected with water or directly to the working chamber or screw conveyor.

The quantity of MEYCO[®] SLF P1 polymer in the foam solution, the foam expansion rate and the foam injection rate will vary according to the prevailing ground conditions.



The Chemical Company

MEYCO[®] SLF P1

Consumption

Typically the consumption of MEYCO[®] SLF P1 is between 0.3 – 3% on the foam solution (0.2 – 2 kg/m³ on the volume of soil excavated). Other dosage levels may be appropriate in certain circumstances so consult your local representative.

Storage

The storage temperature of MEYCO[®] SLF P1 is between 5°C and 35°C. If stored in original tightly closed containers under the above conditions MEYCO[®] SLF P1 will have a shelf life of 12 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[®] SLF P1 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[®] SLF products in tunnels can be downloaded from the MEYCO website. Alternatively ask your local representative for a copy

05/2009 BASF_CC-UAE revised 02/2012

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* Properties listed are based on laboratory controlled tests.

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