

MEYCO[®] SLF P1

Liquid Polymer for soil conditioning in Tunnel Boring Machines

Description

MEYCO SLF P1 is a lubricating polymer in liquid form, which is used to enhance the performance of MEYCO SLF P1 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.

Uses

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

Advantages

MEYCO SLF P1 has been specifically developed for soil conditioning with shielded TBM excavation. It has excellent performance in restructuring the soil, and its 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 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 manageable consistency.
- When injected directing into the screw conveyor, it helps the formation of the “plug”
- Environment friendly
- Ready to use – no mixing equipment required
- Easy to dose, and easy to adjust the quantity to suit the prevailing soil conditions

Typical properties

Aspect	: Transparent liquid
Specific gravity	: 1.01 ± 0.01 at 20°C
pH	: ≥ 6
Miscibility in water	: Miscible

Directions for use

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 foam solution, the foam expansion rate and the foam injection rate will vary according to the prevailing ground conditions.

Coverage

Typically the 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 UGC representative.

Packaging

MEYCO SLF P1 is available in standard 200 Kg drums, or 1000 Kg containers.

Storage and Shelf life

The storage temperature of MEYCO SLF P1 is between 5°C and 35°C.

If stored in original tightly closed containers MEYCO SLF P1 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.



The Chemical Company

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