

# UnderTech FOAM

Ground Conditioning Foam for Tunnel Boring Machines (TBM)



## DESCRIPTION

UnderTech FOAM is a ground conditioning foaming agent for Pasa Pressure Tunnel Boring Machines (EPB TBM).

## USAGE AREA

- It is used in soft ground tunneling.

## ADVANTAGE

UnderTech FOAM product;

Improves ground behavior

- Provides easy transportation of the material
- Low ground permeability and reduces leakage in the mirror
- Provides uniform and controlled ground pressure and mirror stability.
- Provides lower internal friction of the ground in the cutting head, spiral and conveyor belt and reduces wear.
- It provides energy consumption with easier transportation.
- Enables lower grounding costs by digging the ground more easily.
- It provides to reduce the stickiness causing blocking problem on some types of ground.

## USE

- The reconstituted material is used by mixing air with the foam generator.

## APPLICATION AND USE

- UnderTech FOAM's aqueous solution is expanded with the help of air to create a stable foam. The foam swelling rate (FER) and foam injection rate (FIR) of the foam to be used in the mirror, pressure chamber and helix depends on the condition of the ground encountered during excavation.
- UnderTech FOAM is used as 1-6% aqueous solution.
- UnderTech FOAM polymers can be used with UnderTech FOAM to adjust the redogenic properties of the foam or paste.
- Please contact TechnoChem L.L.C officials for initial use and use with other floor separator materials.

## STORAGE CONDITIONS AND PACKING

- It should be kept in its original packaging.
- The product should always be kept in its closed package in the open air.
- It should be stored between 5 ° C and 40 ° C.
- It is suitable for use for 12 months from the date of production if stored in its original package, which is not opened and damaged.
- It is offered for sale in 1000 kg IBC tanks and bulk.

## COMPATIBILITY

The pure UnderTech FOAM product should not be mixed with another soil conditioner additive, as the UnderTech UGF product may cause sudden gelling. If several different foam or polymer products are used in TBM, preferably a separate transfer or dosing pump should be used for UnderTech FOAM. If the same transfer or dosing pump is used for different products, it is recommended to clean the pump thoroughly with water before product changes.

## SECURITY INFORMATION

Contact of the additive with the skin and eyes should be prevented and should be washed with plenty of water in contact. In case of contact with eyes, wash immediately with plenty of water and seek medical attention. Gloves, protective masks and goggles should be used during use. For more detailed information, the material safety data sheet (MSDS) of the product should be consulted.

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