

Polymer added foam agent for water containing floors

PRODUCT DESCRIPTION

PLS – 100 is a lubricating polymer in liquid form, which is used to enhance the performance of **foam group** 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.

APPLICATION

PLS – 100 is proposed for permeable soils with high water content mixture with sand and clay that lead to higher slump of soil and need to reduce slump to be able conveys the soil properly.

Features and benefits

PLS – 100 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 **PLS – 100** 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 cutter head 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 directing 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

IMPLEMENTATION

PLS – 100 is mixed with water at the water tank.

DOSAGE & USAGE

According to the ground properties, It will be used between

1.5 % - 10% of water weight

Packaging

PLS – 100 is available in IBC of 100 liter

Technical Specifications	
Color	Transparent
Density at 20°C	1.01 +/- 0,005
Freezing Point	Below 0°C
Burning Point	Over 80°C