

Soil Conditioning Polymer for TBM

DESCRIPTION

TamSoil 600CP is a liquid polymer specially designed for use in EPB tunnel boring machine for soil condition. This polymer is used in ground conditions where foam alone is not sufficient to tackle the increase in water content.

TamSoil 600CP is effective in ground consisting of fine like sand / silt or clay with high water content.

KEY BENEFITS

- > Improve soil stability
- > Reduce permeability and increase sealing at the face, by turning wet soil into a suitable consistency
- > Ability to improve cohesion of coarse gravel sand to form a paste like material
- > Lubricating effect on soil
- > Clay encapsulation effects
- > Environmentally safe and non-toxic

TYPICAL APPLICATIONS

- > Ground that is poorly graded and saturated in EPB TBM
- > Ground consisting of sand / silt and clay with high water content

TECHNICAL DATA

TamSoil 600CP	
Form	Liquid
Colour	Colourless
Density	1.01 ± 0.01 g/cm ³
pH value	6.0 ± 1.0
Chloride content	< 0.1%
All at 20°C	

All technical data stated herein is based on tests carried out under laboratory conditions.

PACKAGING

TamSoil 600CP is supplied in 200 litre drums and 1000 litre tanks.

ENVIRONMENTAL SUSTAINABILITY



- Aquatic Toxicity: extremely low
- > fish: LC₅₀ >10.000 mg/l (OECD 203)
 - > daphnia: EC₅₀ >30.000 mg/l (OECD 202)
 - > algae: IC₅₀ >30.000 mg/l (OECD 201)
- not hazardous to waters



- Biodegradation: excellent
- > 79.6 % after 28 days (OECD 301 F)
- readily biodegradable

APPLICATION GUIDELINES

TamSoil 600CP is injected typically in the range of 0.2 to 2 kg/m³ by volume of soil to be treated. The quantity of polymer used will vary according to the ground conditions.

TamSoil 600CP can be injected with water or directly into the working chamber or screw conveyor.

TamSoil 600CP can also be used together with other TamSoil CF foams and injected to the cutter head or mixing chamber.

STORAGE

TamSoil 600CP should be stored at room temperature (min 5°C and max 40°C), kept dry and out of direct sunlight or freezer condition. If these conditions are maintained and the product packaging is unopened, then a shelf life of one year can be expected.

HEALTH & SAFETY

TamSoil 600CP should only be used as directed. We always recommend that the Safety Data Sheet (SDS) is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety Data Sheet is available upon request from your local Normet representative.