

## PRODUCT DATA SHEET

# Sika® Stabilizer-3121 TBM TH

Viscosity modifier for the excavation of altered and incoherent soils by EPB TBM

## DESCRIPTION

Sika® Stabilizer-3121 TBM TH is a water-soluble acrylic-based polymer that can improve spoil condition immediately.

It reduces issues caused by high water content in spoil, greatly improving the safety of material transportation off site, as well as lowering disposal costs by reducing the off site transportable spoil volume considerably.

## USES

- Lubricating the main drive torque of the TBM to improve efficiency.
- Soil conditioning improver in case of excavation in wet sand soil containing fines (binder).

## CHARACTERISTICS / ADVANTAGES

- Enables quick fluid batching without specific mixing plants.
- Improves cutting efficiency.
- Assists with maintaining a clean shield from clay build up.
- Reduces friction between soil particles.
- Reduces the head torque.
- Easy to handle.
- Stabilises foams by improving compactness and strength when excavating in sandy soils containing elevated water content.
- Absorbs water to improve spoil compactness and allowing pressure control through the screw conveyor.

## PRODUCT INFORMATION

<b>Composition</b>	Acrylic-based polymer.
<b>Packaging</b>	20 kg / pail. 1000 kg IBC tanks.
<b>Shelf life</b>	12 months from date of production.
<b>Storage conditions</b>	The product must be stored in original, unopened and undamaged packaging in dry conditions and protected from direct sun exposure at temperatures between +5 °C and +35 °C.
<b>Appearance and colour</b>	Slightly Yellow Highly Viscous Liquid.
<b>Density</b>	1.060 kg/l ± 0.030
<b>pH-Value</b>	7 - 8

# TECHNICAL INFORMATION

**Specific advice** Dispersibility: Very good.  
Flammability: Non flammable.

## SYSTEM INFORMATION

**Compatibility** Contact Sika Technical Services for additional information.

## APPLICATION INFORMATION

**Recommended dosage** Foam stabilizer: 1–3 kg per cubic metre of foaming solution  
Water based drilling mud: 10–20 kg per 1 cubic metre of water (10% < FIR < 20% of soil volume excavated).  
This information is a guide only and will be specific to each material type. Preliminary trials in the laboratory must always be carried out to determine dosage and approval for suitability before commencement of the project.  
Contact Sika Technical Services for additional information.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

If separation of the liquid solution occurs, mix intensely before using.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### DISPENSING

Inject through standard TBM dosing equipment.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

**Sika (Thailand) Limited**  
700/37 Moo 5 Amata City Chonburi  
Industrial Estate, T. Klong Tamhru  
A. Muang, Chonburi 20000, Thailand  
Tel : +66 3810 9500  
E-mail : sikathai@th.sika.com  
Website: tha.sika.com



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