

## PRODUCT DATA SHEET

# Sika® Stabilizer-4001 TBM GB

## Activated Sodium Bentonite

### PRODUCT DESCRIPTION

Sika® Stabilizer-4001 TBM GB is activated sodium bentonite, a chemically stable clay that provides predictable long term performance suitable for many types of civil engineering applications.

### USES

Typical uses include:

- One or two-component annulus grouting (Shield TBM excavation)
- Micro tunnels
- Micro piles
- Grouting stabilization
- Foundation pile sealing
- Plastic concrete

### CHARACTERISTICS / ADVANTAGES

- Controls bleeding, lubrication of Component A in two-component backfill grouts
- Improves homogeneity and thixotropy of two-component backfill grouts
- Fast dispersion when mixed at high shear rates
- Compatible with standard cement types

### PRODUCT INFORMATION

<b>Chemical Base</b>	Activated Sodium Bentonite
<b>Packaging</b>	25 kg bags, bulk bags and bulk tanker
<b>Shelf Life</b>	24 months from date of production if stored properly in undamaged and unopened original sealed packaging.
<b>Storage Conditions</b>	Stored in dry conditions, protect from direct sunlight and frost.
<b>Density</b>	2.7 kg/L
<b>pH-Value</b>	9.0 - 10.0 (5% Suspension)
<b>Colour</b>	Light brown powder

### TECHNICAL INFORMATION

<b>Specific Advice</b>	When used with cementitious binders, Sika® Stabilizer-4001 TBM GB should be added into a high-shear mixer and mixed for at least 3 minutes to fully hydrate the product prior to the addition of binder.
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<b>Indicative performance of mortar mix</b>	Moisture	9.0 - 14.0 %
	150 µm seive residue	≤5.0 %
	Swelling capacity	12.5 %

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	25 - 45 kg/m <sup>3</sup> of two-component backfill grouts. Please contact Sika Technical for further assistance.
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## VALUE BASE

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.

## ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### MIXING

For two-component backfill grouts:  
Mix at high shear rate with fresh water as first, then add cement, aggregates (if any) and chemicals as the last ingredients.

## 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.

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