

PRODUCT DATA SHEET

Sika® Stabilizer-4141 TBM

High-molecular-weight, anionic flocculant for solid-liquid separation

DESCRIPTION

Sika® Stabilizer-4141 TBM is a flocculant with a very high molecular weight and a medium charge density. It is supplied as a granular powder.

USES

Sika® Stabilizer-4141 TBM is used for:

- Achieving fast solid-liquid separation, either applied separately or in combination with a cationic flocculant
- Adjusting precipitation rates from high to very high, based on the dosage added to the slurry

CHARACTERISTICS / ADVANTAGES

- Enhances clarification in gravity separation and filtration processes for various mineral or organic substrates. It is particularly useful for conditioning industrial effluents before mechanical or static solid-liquid separation.
- Facilitates economical flocculation and removal of drill solids
- Highly effective in a wide range of applications including mechanical thickening and dewatering, flotation and clarification
- Covers a wide pH range (5–8) with good shear stability during operation

PRODUCT INFORMATION

Chemical base	Mixture flocculant containing no reportable hazardous substances	
Packaging	25 kg (multiwall bag) or 750 kg (big bag)	
	Bulk	On request
Colour	White	
Shelf life	24 months from date of production	
Storage conditions	The Product must be stored in a stable environment within the recommended storage temperature range of 0 °C to 25 °C, in dry conditions and in an unopened, sealed container. Avoid contact with water prior to make-up. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	(0.75 ± 0.01) kg/L	(EN ISO 2811-1)
pH-value	5.0–8.0 at 5.0 g/L	
Viscosity	Brookfield viscosity (cP)	(DIN 53019-1)
	At 5.0 gr/L	1440 cP
	At 2.5 gr/L	540 cP
	At 1.0 gr/L	179 cP
Solubility	Soluble in water	

APPLICATION INFORMATION

Recommended Dosage

The dosage of the Product depends on the following conditions involved in the slurry process:

- Slurry mix design
- Type of bentonite
- Potential slurry contamination with saline water
- Volume of excavated ground in the slurry after first and second stage separation
- Ability to create a pre-mixed liquid solution before injection

Solution concentrations in the range of 0.1–0.5 % are standard.

Note: Preliminary laboratory trials are always recommended to determine the optimum consumption and injection parameters.

Contact Sika Technical Services for additional information.

Consumption

0.1–0.5 %

SYSTEM INFORMATION

Compatibility

Compatible with Sika® admixtures and other Sika® products.

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.

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

EQUIPMENT

In general, corrosion toward most standard construction materials is minimal. Observe the following material guidelines for all pumping and transfer systems that come into direct contact with the polymer solution.

Recommended corrosion-resistant materials:

- Stainless steel
- Fibreglass
- Polyethylene (HDPE)
- Polypropylene (PP)
- Rubberized surface

Materials to avoid:

- Aluminum surfaces may be adversely affected.

APPLICATION

Standard mixing parameters:

- Solution: 0.1 %
- Mixing speed: 500 rpm
- Mixing time: no more than 40–45 minutes

To maximize product solubility, use make-up water that is as soft as possible (< 60 ppm) and at a temperature < 25 °C.

Spilled product is slippery, especially when wet

Note: Polymer spills create a highly slippery, gel-like film that resists water washdown.

1. Avoid spilling the polymer solution.
 2. Surrounding walkways must have slip-resistant flooring.
 3. Dosing areas should have containment bunds.
1. Dose the Product at an intermediate tank.
 2. Mechanically mix the Product in the intermediate tank to ensure total solubility and performance. Note At temperatures < 5 °C, longer dissolution times are required to achieve maximum performance.
 3. Add the prepared solution to the sludge tank just prior to the mechanical separation equipment. This promotes solids settlement and enhances the overall efficiency of the process.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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