

PRODUCT DATA SHEET

Sika® Stabilizer-4142 TBM

Cationic coagulant for solid-liquid separation

PRODUCT DESCRIPTION

Sika® Stabilizer-4142 TBM is a very high positive charge density coagulant supplied in liquid form.

USES

Sika® Stabilizer-4142 TBM is used to:

- Destabilize and neutralize the electrical charges on fine particles and colloids suspended in water
- To be applied in conjunction with a compatible flocculant but always before it

CHARACTERISTICS / ADVANTAGES

- When added to the slurry, it neutralizes the negative charges on colloidal particles.
- The destabilization causes the particles to lose their repulsive forces and begin to aggregate into microflocs.
- It addresses the electrostatic barrier that prevents fine particles from clumping (CHEMICAL SEPARATION).
- Facilitates economical water clearance and removal of drill solids
- It covers a pH range (5-7) with good shear stability during operation

PRODUCT INFORMATION

Chemical Base	Mixture homopolymer
Packaging	Available in plastic pails 25kg; IBCs 1050Kg; bulk on request Refer to the current price list for available packaging variations.
Appearance / Color	Clear liquid
Shelf Life	24 months from date of production
Storage Conditions	The Product must be stored under stable environment within the

recommended storage temperature range in dry conditions, unopened and in sealed container. Recommended temperatures between +0 °C and +25 °C. 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	1.02 - 1,07 kg/L
pH-Value	5.0 - 7.0
Viscosity	Brookfield Viscosity 200 - 600 cP
Solubility	Soluble in water
Recommended Dosage	<p>The dosage of the Product depends on the following conditions involved in the slurry process:</p> <ul style="list-style-type: none"> ▪ Slurry mix design ▪ Type of bentonite ▪ Potential slurry contamination with saline water <p>Volume of excavated ground in the slurry after first and second stage separation</p> <ul style="list-style-type: none"> ▪ Ability to create a pre-mixed liquid solution before injection <p>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.</p>
Coverage	0.1–0.5%
Compatibility	Compatible with Sika® admixtures and other Sika® products. Contact Sika Technical Services for additional information.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

APPLICATION INSTRUCTIONS

EQUIPMENT

APPLICATION

The Product must be mixed in 5.0 - 10.0% range with water to create a solution.
 Standard mixing parameters:

- Mixing speed: 1200 rpm
- Mixing time: no more than 40-45 minutes
- Dose the product directly from IBC and connect the solution to a pumping system

To maximize product solubility, use make-up water as soft as possible and < 25 °C.
 Pump the solution with an high shear pump located before the sludge tank, in the slurry line coming from the STP.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED

- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF**



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Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



Product Data Sheet

Sika® Stabilizer-4142 TBM
January 2026, Version 01.01
021404071000246383

SikaStabilizer-4142TBM-en-US-(01-2026)-1-1.pdf

