

PRODUCT DATA SHEET

Sika® Stabilizer-510 MBF Liquid Concentrate

HIGH RANGE WATER REDUCING ADMIXTURE

PRODUCT DESCRIPTION

Sika® Stabilizer-510 MBF Liquid Concentrate is a high range water reducing admixture that improves the performance of cemented paste fills and high density fills in underground backfill operations. The product is well suited for a range of gold deposits (orogenic, quartz lode hosted gold) as well as polymetallic base metals deposits.

WHERE TO USE

Sika® Stabilizer-510 MBF Liquid Concentrate can be used to:

- Optimize the cost performances of the paste fill mix by reducing binder content (cement, slag, fly ash)
- Improve the rheological properties of the cemented paste fill during the continuous mixing, pumping, and filling process
- Enhance workability of the paste fill, allowing long transportation along paste lines at significantly lower water contents
- Lower the paste yield stress at an increased overall solid content
- Reduce pumping- and line pressure within the reticulation system
- Reduce the risk of blockages in the reticulation system
- Improve in-situ compressive strengths at the final stage
- Reduce wear and tear of machinery, equipment

- and paste lines
- Reduce segregation and bleeding of the placed paste fill
- Reduce shrinkage and permeability in hardened fill
- Improve cleaning operation of the mixer and the pumping pipes.

CHARACTERISTICS / ADVANTAGES

- Reduction of the cement content up to 25 %
- Reduction of CO₂ emission
- Strong water reduction of the paste mix
- Ideal for remote projects
- Can be stored in cold temperatures
- Reduction in transport costs: no fillers or excess water to transport

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PRODUCT INFORMATION

Packaging	1040L FIBC
Appearance / Colour	Dark brown liquid
Shelf Life	9 months from date of production if stored in unopened and undamaged original sealed container.
Storage Conditions	Storage temperature should be lower than 35 °C
Density	1.08 kg/L once product is diluted
pH-Value	7.3
Viscosity	at 23 °C : 20 cPs
Specific Advice	The values for the PH, density and viscosity are based on mixing the product with the recommended quantity of mixing water.

APPLICATION INFORMATION

Recommended Dosage	The recommended dosage based on the solid phase is between 0.80 and 1.50 kg per 100 kg of cement. It is recommended to use an automated continuous process liquid dispensing system; the admixture can then be added directly into the plant mixer. It is not recommended to use this product at a higher dosage than the specified maximum dosage, unless required otherwise and after the required tests have been carried out.
Mixing	Once mixing is done, the mixture can be transferred to the storage tank and can be dosed by a liquid dispenser, please refer to the Dosage section.
Restrictions	<ul style="list-style-type: none">▪ Storage temperature should be lower than 35 °C▪ If a Tote of product freezes product needs to be homogenized and/or fully used▪ Protect from direct sunlight

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & 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

Dissolution of the admixture : Mechanically, mix a tote of 1040 L of Sika® Stabilizer-510 MBF Liquid Concentrate with 1820 L of water for a minimum of 10 minutes or until a homogeneous mix is obtained. To obtain the most optimal mix possible, make sure that the selected type of mixer is approved by a Sika Technical Sales Representative beforehand. Once mixing is done, the mixture can be transferred to the storage tank and can be dosed by a liquid dispenser, please refer to the Dosage section.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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