

PRODUCT DATA SHEET

Sika® Stabilizer-514 MBF

WATER REDUCING AND RETARDING ADMIXTURE FOR MINING APPLICATIONS

PRODUCT DESCRIPTION

Sika® Stabilizer-514 MBF is a water-reducing and retarding admixture used by the mining industry to extend the workability time, while at the same time fluidizing the general concrete and cemented mine backfill mixes.

USES

Sika® Stabilizer-514 MBF can be used for concrete and mine backfill applications and is effective in mixes containing Portland Cement, Portland Limestone Cement (PLC/Type IL), and other supplementary cementitious materials.

CHARACTERISTICS / ADVANTAGES

Sika® Stabilizer-514 MBF can be used in mining to:

- Transport and pump freshly batched mixes for longer distances,
- Control set time or cement hydration to meet project requirements,
- Control set time in hot and cold weather applications,
- Reduce the risk of blockages in the lines,
- Reduce water and increase solid content,
- Prevent cold joints, even in large concrete pours.

Sika® Stabilizer-514 MBF does not contain calcium chloride or any other intentionally added chlorides.

PRODUCT INFORMATION

Packaging	55 gallon drum (208 L) 275 gallon tote (1040 L) Bulk delivery
Appearance / Color	Fluorescent Green / Brown Liquid
Shelf Life	1 year when stored in dry warehouse conditions, at temperatures between 40 - 80°F (5 - 27°C)
Storage Conditions	Store protected from direct sunlight and at temperatures above 40°F (5°C) If frozen, thaw and agitate thoroughly to return to normal state.
Specific gravity	Approx. 1.180

APPLICATION INFORMATION

Recommended Dosage

Dosage rates will vary according to materials used, ambient conditions, and the requirements of a specific project. Dosage rates of 2-4 fl.oz. / 100 lbs. (130-260 ml / 100 kg) cement are recommended for general concrete applications. For backfill applications the dosage can range between 0.5-2% by weight of cementitious material.

Preliminary trial mixes, in laboratory and in field, should be conducted with the actual materials to determine the required dosage for optimum performance. Plant trials should be started with a lower dosage than estimated in the laboratory trials. If performance is unsatisfactory, gradually increase the dosage while continuously monitoring the system until the desired performance is achieved. Do not use a higher dosage than recommended without preliminary testing.

Mixing

For Sika® Stabilizer-514 MBF, measure the required quantity manually, or by an automated liquid admixture dispensing system adapted to the application. Add Sika® Stabilizer-514 MBF directly into the freshly mixed cementitious mix, or as an integral material in the batching cycle. Do NOT mix with dry cement. Sika® Stabilizer-514 MBF may be dispensed on-site directly prior to placement. Care must be taken to mix thoroughly.

Contact your local Sika Technical Representative for more information.

SYSTEM INFORMATION

Compatibility

Sika® Stabilizer-514 MBF can be used in combination with other Sika admixtures and can be successfully used in mix designs utilizing supplementary cementitious materials. When used in combination with other admixtures dispense each admixture separately into the mix.

Contact your local Sika STM Technical Representative for more 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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

OTHER RESTRICTIONS

See Legal Disclaimer.

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 MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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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-514 MBF
July 2025, Version 01.01
021303011000004735

SikaStabilizer-514MBF-en-US-(07-2025)-1-1.pdf

