



PRODUCT DATA SHEET

Sika® Stabilizer-314 MBF

HIGH-RANGE WATER REDUCER FOR MINE BACKFILL

PRODUCT DESCRIPTION

Sika® Stabilizer-314 MBF is a high-range water reducing admixture used by the mining industry to improve the performance of cemented paste fills for underground backfill operations. The product is well suited for a range of polymetallic base metals deposits (volcanogenic massive sulfide), and for gold deposits (orogenic, quartz lode hosted gold).

WHERE TO USE

Sika® Stabilizer-314 MBF can be used in mining to :

- Reduce water and increase solid content of the cemented paste fill
- Enhance workability of the paste fill
- Improve rheological properties to facilitate mixing and pumping, and increase backfill throughput
- Reduce pumping and line pressure within the reticulation system

- Improve in-situ compressive strengths at the final stage
- Reduce costs by reducing binder content (cement, slag, fly ash)

CHARACTERISTICS / ADVANTAGES

- High water reduction, resulting in high density and high compressive strength
- High plasticizing effect, resulting in improved flowability and placement
- Does not contain chlorides or any other ingredients which promote the corrosion of steel
- Reduction of the cement content and associated CO₂ emissions

PRODUCT INFORMATION

Packaging	1040L IBC Refer to current price list for packaging variations
Shelf Life	12 months from production date
Storage Conditions	This product must be stored in original, unopened and undamaged packaging in dry conditions as temperatures between +10 and +30°C (50 and 86°F). Always refer to packaging
Appearance / Colour	White-yellowish, slightly cloudy liquid
Density	~1.09 g/cm ³ at 23 °C
Viscosity	~450 mPa·s at +23 °C

SYSTEMS

Compatibility

Contact your Sika Canada Technical Sales Representative

APPLICATION INFORMATION

Recommended Dosage

The dosage to be used should be estimated by preliminary laboratory testing. The recommended dosage will usually be between 1 and 3% by weight of the total cementitious content. It is suggested that an automated liquid admixture dispensing system adapted to the paste backfill mixing method be used. Start plant trials with a lower dosage than that estimated in the laboratory. If the performance and the system results are satisfactory, continue with this dosage. 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 the recommended without preliminary testing.

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.

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

Sika Canada Inc.

Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations

Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

Product Data Sheet

Sika® Stabilizer-314 MBF
October 2023, Version 01.01
021301011000004849

SikaStabilizer-314MBF-en-CA-(10-2023)-1-1.pdf

