

Sika® Grind 500

Grinding Aid

Construction

Description	Sika® Grind 500 is one of a range of liquid cement admixtures for use as a grinding aid in the manufacture of cement. This latest technology in cement admixtures has been developed to increase mill output and lower energy demand. Sika® Grind 500 cement admixture is formulated for both open circuit and closed circuit mills.
Uses	Sika® Grind 500 cement admixtures are particularly recommended for grinding of: <ul style="list-style-type: none"> • Portland cements. • Mineral components, such as slag and other pozzolanic materials. • Blended cements.
Advantages	Sika® Grind 500 cement admixture provides the following performance: <ul style="list-style-type: none"> • Increases output of grinding mill. • Lower energy demands. • Formulation is based on selected surfactants - this ensures uniform distribution of air voids in mortar. • Reduced grinding energy for better economics. • Reduced "pack-set" promotes better flow characteristics.
Storage and Shelf life	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight and frost, shelf life is at least one (1) year.
Instructions for Use	
Dosage	Typical dosage rates are between 150 - 600 ml per tonne of (clinker cement) feed. Sika® Grind 500 is used at optimum dosage rates. Optimum dosage is determined by type and fines of cement and desired air content. For best results, Sika® Grind 500 cement admixtures should be accurately dispensed using a calibrated dosing pump. Please consult Sika's Technical department for recommendation of suitable equipment, installation and dosage procedure.
Application Method	For best results, Sika® Grind 500 cement admixture must be proportioned as received. Sika® Grind 500 cement admixture is introduced into the first or second compartment of the grinding mill to maximise dispersion and product efficiency. Where required, Sika® Grind 500 can also be sprinkled onto the clinker on the conveyor belt. Suitable dosage pumps with adjustable flow rates should be used for accurate dosing.
Temperature Considerations	Since Sika® Grind 500 admixtures have very low freezing point, no anti-freeze precautions have to be taken in bulk installations. If storage tanks are expected to be exposed to temperatures below -10°C, tanks and lines should be insulated and heated to prevent excessive increase in viscosity and to maintain pumpability. Once frozen, Sika® Grind 500 can be heated up to room temperature of +20°C or higher and completely reconstituted by light mechanical agitation. Avoid agitation by pressurised air.

Technical and Physical Data

Form	Liquid
Appearance	Light brown.
Density	1.07 kg/litre approx.
Suitability	All types of Portland cement
Chloride Contents	No added chlorides
Chemical Base	Amines
pH	11 ± 2
Packaging	205 litre drum Bulk deliveries

Important Note

- Plant trials are highly recommended.
- For additional information, please contact your local Sika Representative.

Handling Precautions

- Avoid contact with eyes and skin.
- Wear protective gloves and eye protection during work.
- If skin contact occurs, wash skin thoroughly.
- If in eyes, hold eyes open, flood with warm water and seek medical attention immediately.
- A full Material Safety Data Sheet is available from Sika on request.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

