

PRODUCT DATA SHEET

SikaGrind® GA 1359

(formerly MasterCem® GA 1359)

CEMENT GRINDING AID

DESCRIPTION

SikaGrind® GA 1359 is a liquid, ready-to-use cement additive designed to enhance cement performance. In addition to acting as a Grinding Aid in the milling process and a flow aid in cement conveyance, SikaGrind® GA 1359 improves specific cement properties by the activity of its chemical components. These act in the modification of clinker characteristics and in the enhancement of its hydraulic properties.

SikaGrind® GA 1359 is specifically designed to be used either for achieving superior product performance or for cement grinding optimization while maintaining the original performance level. However, product performance is dependent on grinding equipment characteristics, process conditions, raw material properties and cement type. To best benefit from cement additives, mill and separator process parameters may need to be adapted. SikaGrind® GA 1359 improves the flow characteristics of cement with positive impact on cement conveyance and reduction of pack-set in storage.

USES

SikaGrind® GA 1359 is developed for application in the cement grinding process in:

- Ball mills (closed and open circuits).
- Vertical mills.

FEATURES

SikaGrind® GA 1359 offers the following benefits to cement producers:

- Cost reduction due to lower unit grinding energy (kWh/t) and optimization of cement fineness and composition while maintaining cement properties.
- Capacity extension due to higher mill throughput and optimized cement recipe.
- Product differentiation due to enhanced cement performance and improved properties for the final application.
- Improved cement handling due to faster cement conveyance through the plant and in the distribution.
- Reduction of plant stops and optimized storage in silos.
- Very low dust generation during application and therefore a good working environment.

PRODUCT INFORMATION

Composition	Aqueous solution of amines
Packaging	1 000 Kg IBC (non-returnable) 1 000 Kg bulk delivery
Shelf life	12 months from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Appearance	Liquid

APPLICATION INFORMATION

Recommended dosage	SikaGrind® GA 1359 can be metered onto the mill feeders or injected into the mill. The typical dosage rate is 200 – 400 ppm of cement. Other dosages may be required in specific situations. The optimum dosage should be evaluated in plant trials. Calibrated dosing equipment with an adjustable flow rate and appropriate dosage range is recommended to obtain the maximum performance of the product.
Compatibility	SikaGrind® GA 1359 is compatible with all types of cement. It complies with ASTM C465-19 as a non-harmful processing additive and fulfils the SNI 2064:2023 requirements.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND 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

APPLICATION

SikaGrind® GA 1359 can be added at the clinker feed conveyor belt or directly into the cement mill's first compartment. A proper dosing pump is required to ensure the correct dosage into the cement for obtaining the optimum performance. Our technical supports are available to provide assistance in the use of SikaGrind® GA 1359 with the manual, automatic or computerized dispensing system.

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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