

PRODUCT DATA SHEET

SikaGrind® GA 1134

(formerly MasterCem® GA 1134)

Cement additive engineered for reduction of unit grinding energy and increase of mill throughput.

DESCRIPTION

SikaGrind® GA 1134 is a liquid, ready-to-use Grinding Aid for cement. It neutralizes the agglomeration forces between fractured crystalline cement particles that are produced during the milling process. The resulting dispersion effect improves grinding and separation efficiency, thus, promoting the development of fineness and cement powder flowability.

These benefits can be used for lowering unit grinding energy cost and for increasing mill throughput. Typical grinding efficiency improvement is in the range of 10-25% vs. plain control. 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 1134 improves the flow characteristics of cement with positive impact on cement conveyance and reduction of pack-set in storage silos.

USES

SikaGrind® GA 1134 is developed for application in the cement grinding process in:

- Ball mills (closed and open circuits)
- Vertical mills
- Other cement grinding systems

FEATURES

SikaGrind® GA 1134 offers the following benefits to cement producers:

- Cost reduction due to lower unit grinding energy (kWh/t) and decreased specific maintenance cost. Use of low-cost energy tariffs and transfer of production to more efficient mills.
- Capacity extension due to higher mill throughput. Flexibility to satisfy peak market demands. Postponing or avoidance of investments for grinding capacity increase.
- Improved cement handling due to faster cement conveyance through the plant and in the distribution logistics. Reduction of plant stops and optimized storage in silos.

CERTIFICATES AND TEST REPORTS

SikaGrind® GA 1134 fulfils the European cement standard EN 197.1

PRODUCT INFORMATION

Packaging	1000 lt. flow bins. Bulk supply in tanker trucks is available upon request
Shelf life	If stored in unopened containers according to manufacturer's instructions, the shelf life is a minimum of 12 months.
Storage conditions	It is recommended to store SikaGrind® GA 1134 at temperatures above

0°C. Pipes should be thermally isolated.

Appearance and colour	Brownish liquid
Density	@ 20°C: 1.200 - 1.280 g/cm ³
pH-Value	6.0 - 8.5

APPLICATION INFORMATION

Recommended dosage	SikaGrind® GA 1134 can be metered onto the mill feed or injected into the mill. The recommended dosage rate between 200 and 400 g per ton of cement (0.02-0.04%). Other dosages may be required in specific situations. The optimum dosage should be evaluated in plant trials. For further questions please consult our Technical Service. 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 1134 is compatible with all types of ce-ments, including Ordinary Portland Cements and compo-site cements.

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika Egypt

1st Industrial Zone (A)
Section #10, Block 13035
El Obour City, Egypt
TEL: +202 44810580
FAX: +202 44810459
egy.sika.com



SikaGrindGA1134-en-EG-(05-2024)-1-1.pdf

Product Data Sheet

SikaGrind® GA 1134

May 2024, Version 01.01
02140700000002028