

PRODUCT DATA SHEET

SikaGrind® GA 1175

(formerly MasterCem® GA 1175)

Cement additive engineered for reduction of grinding energy / increase of cement mill throughput

DESCRIPTION

SikaGrind® GA 1175 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 1175 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. Products of the SikaGrind® GA series are specifically designed to be used either for achieving superior product performance or for cement grinding optimization while maintaining the original performance level. SikaGrind® GA 1175 improves the flow characteristics of cement with positive impact on cement conveyance and reduction of pack-set in storage.

USES

SikaGrind® GA 1175 is developed for application in the cement grinding process in :

- Ball mills (closed and open circuits)
- Vertical mills
- Other grinding systems, such as: GGBS grinding

PRODUCT INFORMATION

Packaging	SikaGrind® GA 1175 is available in bulk and Intermediate Bulk Container (IBC)
Shelf life	If stored in unopened containers according to manufacturer's instructions, the shelf life is 12 months.
Storage conditions	It is recommended to store SikaGrind® GA 1175 at temperatures above 5°C. Pipes should be thermally isolated.
Appearance and colour	Brown to yellowish liquid
Density	1.2–1.26 g/cm ³ at 25°C

FEATURES

SikaGrind® GA 1175 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 logistics. Reduction of plant stops and optimized storage in silos.
- Good working environment due to low dust generation.

CERTIFICATES AND TEST REPORTS

SikaGrind® GA 1175 fulfils the European cement standard EN 197.1.

APPLICATION INFORMATION

Compatibility

SikaGrind® GA 1175 is compatible with all types of 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.
- Internal Reference - Version: MBS_CC-UAE/Cem_GA1175_01_18/v1/04_19

IMPORTANT CONSIDERATIONS

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.

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.

APPLICATION INSTRUCTIONS

SikaGrind® GA 1175 can be metered onto the mill feeders or injected into the mill. The recommended dosage rate is between 200 - 500 g per ton of cement. Other dosages may be required in specific situations. The optimum dosage should be evaluated in plant trials. For further information please consult Sika Technical Service Department. Calibrated dosing equipment with an adjustable flow rate and appropriate dosage range is recommended to obtain the maximum performance of the product.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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



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