

## PRODUCT DATA SHEET

# SikaGrind® GA 1333

(formerly MasterCem® GA 1333)

High performance cement additive to increase grinding efficiency

### DESCRIPTION

SikaGrind® GA 1333 is specially formulated as a high performance grinding aid for Portland cement and other hydraulic cements. It is based on modified hydroxylated compound mixtures.

### USES

- Ordinary Portland cement
- Other Hydraulic cement

The special characteristics of SikaGrind® GA 1333 allow it to be effectively used in the cement plants that constantly have problems with hard and hot clinkers. For additional information on SikaGrind® GA 1333 and its use in developing special performance characteristics, contact Sika representative.

### CHARACTERISTICS / ADVANTAGES

SikaGrind® GA 1333 effectively reduces the agglomeration between cement particles inside the cement mill. It is one of the most effective dispersants that improves the efficiency of grinding process by reducing the surface energy forces of cement particles and creating electrostatic repulsion between cement particles. This phenomenon contributes to the following:

- Increased cement mill output at the same cement fineness from 8 % to 30 %.
- Reduced total cement grinding costs per ton of cement.
- Improved cement strength by improving the cement particles size distribution.
- Improved cement dry flowability.
- Reduced cement mill grinding temperature which can help in maintaining the quality of cements.

### PRODUCT INFORMATION

<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 1000 L IBC tank</li> <li>▪ Bulk delivery</li> </ul>
<b>Shelf Life</b>	12 months from date of production
<b>Storage Conditions</b>	Store at temperatures above 5 °C, in tightly sealed original packaging. If found to be frozen, thaw it at 20 °C and reconstitute by stirring.

### APPLICATION INFORMATION

#### Recommended Dosage

The typical dosage rate for SikaGrind® GA 1333 is as per the table below:

Type of Cement	Dosage Rate
Ordinary Portland cement	150–400 gram/ton cement
Other hydraulic cements	200–500 gram/ton cement

The grindability of cement is influenced by the chemical and physical composition of the basic ingredients of the cement, grinding process and clinker characteristics. Trial at the laboratory scale is recommended to determine the optimum dosage required to achieve any specific require-

ment.

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## Dispensing

SikaGrind® GA 1333 can be added at the clinker feed conveyer 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 1333 with the manual, automatic or computerized dispensing system.

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## 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

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.

## 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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### Product Data Sheet

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