

## PRODUCT DATA SHEET

# SikaGrind® LS 3332

(formerly MasterCem® LS 3332)

Late strength enhancer for cements

### DESCRIPTION

SikaGrind® LS 3332 is specially formulated as the grinding aid and late strength enhancer for cements. SikaGrind® LS 3332 is an aqueous modified alkanolamines mixture. Its innovative technology allows optimum cement hydration to provide higher late strength. SikaGrind® LS 3332 complies with ASTM C465-85 as a non-harmful processing additive.

### USES

- Ordinary Portland cement.
  - Blended cement with limestone, fly ash or slag.
- For additional information on SikaGrind® LS 3332 and its use in developing special performance characteristics, contact your Sika representative.

### CHARACTERISTICS / ADVANTAGES

SikaGrind® LS 3332 is a very effective cement particle dispersant in both dry and wet form. Its molecules adsorb into cement interstitial layer and react accordingly to enhance the hydration reaction and allow more surface area for cement hydration. Further reactions with cement particles allow precipitation and nucleation processes that contribute to improved development of cement strength.

Additional benefit of SikaGrind® LS 3332 is its ability to reduce air content in the cement paste and concrete. This contributes to higher late strength in cement and concrete.

These characteristics contribute to the following benefits to cement manufacturers:

- Increased cement mill output at the same cement fineness between 6 % and 15 %.
- Reduced total cement production by reducing grinding costs per ton of cement and replacing clinker with other fillers.
- Increased late strength of cement between 5 % and 20 %.
- Improvement of cement dry flowability.

### 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 a temperature above 0 °C and in tightly sealed original containers. If frozen, thaw it and completely reconstitute by mild agitation. Do not use compressed air.

### SYSTEM INFORMATION

<b>Compatibility</b>	SikaGrind® LS 3332 is compatible with all types of cement.
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# APPLICATION INFORMATION

## Recommended Dosage

The typical dosage rate for SikaGrind® LS 3332 is as per the table below:

Type of Cement	Dosage Rate
Ordinary Portland	300–500 gram / ton cement
Other Hydraulic Cements	300–500 gram / ton cement

The strength development of cement is influenced by the chemical and physical composition of the basic ingredients of the cement, grinding process parameters and clinker characteristics. Plant trial or laboratory scale ball mill test is recommended to determine the optimum dosage required to achieve specific requirements.

Higher dosage might be needed for higher percentage of clinker replacement or less reactive cement.

## Dispensing

SikaGrind® LS 3332 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® LS 3332 with the manual, automatic or computerized dispensing system.

## 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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