

## PRODUCT DATA SHEET

# SikaGrind® SW 4307

(formerly MasterCem® SW 4307)

Cement performance enhancer

### DESCRIPTION

SikaGrind® SW 4307 is a composition of hydroxyl-containing organic chemicals and polyamine base formulated specifically to improve the milling grindability and cement quality performance for the production of Portland and other hydraulic cement types. High end raw materials are used in order to guarantee a superior performance of the product.

### USES

SikaGrind® SW 4307 is highly recommended for use on both the horizontal ball mill and vertical roller mill applications. The enhancing effect towards the cement quality is due to the promoted hydration reaction phase, better workability rheology and improved particle size distribution structure.

### CHARACTERISTICS / ADVANTAGES

The main advantage of SikaGrind® SW 4307 at low dosage with a promising results optimally:

- Reduced cement agglomeration phenomenon for better grinding efficiency.
- Coating reduction - grinding media, internal liners, diaphragm, rollers, grinding table, separator internal parts, etc.
- Increased in cement compressive strength at all ages mainly towards the early stage.
- Increased in cement mill output at the same cement fineness up to 15 % depending on the raw materials quality supplied. Directly influence the production cost per ton of cement produced.
- Better workability rheology for later application.

### APPROVALS / STANDARDS

SikaGrind® SW 4307 complies with ASTM C465-99 as a non-harmful processing additive.

### 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>  | Stored at temperatures above 5 °C, in tightly sealed original packaging. If found to be frozen, thaw it at 20 °C and reconstitute by stirring. |
| <b>Appearance / Colour</b> | Light to dark brown liquid   |
| <b>Specific Gravity</b>    | 1.055–1.095  |

### SYSTEM INFORMATION

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|----------------------|--|
| <b>Compatibility</b> | SikaGrind® SW 4307 is compatible with all types of cement. |
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### APPLICATION INFORMATION

## Recommended Dosage

SikaGrind® SW 4307 is used at a recommended standard dosage rated by weight of cement. Individual dosage may vary due to different type of clinker, type of mill, desired results and job or task conditions. The recommended amount is 0.03–0.05 % by weight of cement produced.

## Dispensing

It is recommended that SikaGrind® SW 4307 to be dispensed at the clinker conveyer belt. However, Sika representatives will advise the best location for the dispenser to be located. No water addition is necessary. A proper dosing pump is required to ensure a correct and consistent dosage into the system to obtain the desired optimum performance. Technical support is available to provide assistance in the use of SikaGrind® SW 4307 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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### Product Data Sheet

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