

## PRODUCT DATA SHEET

# SikaGrind® LS 3388

(formerly MasterCem® LS 3388)

EFFICIENT GRINDING AID FOR THE PRODUCTION OF CEMENT.

### DESCRIPTION

SikaGrind® LS 3388 is liquid cement grinding aid with performance enhancing properties. SikaGrind® LS 3388 has been specifically designed to increase the output of cement grinding plants and obtain improved strength development for cements with high amount of clinker replacements. SikaGrind® LS 3388 conforms to ASTM C465-99 and does not affect to process of production.

### USES

- Improve the production rate of the cement grinding system.
- Increase the early strength of the cement.

### CHARACTERISTICS / ADVANTAGES

**SikaGrind® LS 3388 is a dispersant with the following characteristics:**

- Neutralisation of electrical charges on the surface of the cement particles.
- Separation of the cement particles.

**SikaGrind® LS 3388 provides the following advantages in the cement production:**

- Enhanced grinding properties of the cement mill due to less accumulation of material on grinding balls and mill-liners.
- Higher separator efficiency due to improved cement particle dispersion.
- Reduced relative power consumption per ton of cement due to increased output of the grinding system (tons per hour).
- Easier achievement of the desired cement fineness (Blaine, particle fraction > 32µm, granulometry) due to reduced re-agglomeration of the sufficiently ground cement particles.
- Minimized problems with “plugging” due to improved powder flow characteristics.

**SikaGrind® LS 3388 gives the following advantages to the finished cement:**

- Reduced quantity of “over-milled” particles in the cement granulometry.
- Easier discharge of the silos.
- Increased strengths.
- Economic cement design with clinker replacements.
- Improved slump retention of concrete.

### PRODUCT INFORMATION

<b>Packaging</b>	200/1000 liters IBC. Bulk deliveries.
<b>Shelf life</b>	12 months if stored properly in original unopened packaging.
<b>Storage conditions</b>	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +35 °C. Note: When delivered in bulk, the tanks and equipment used must be free from contaminants.
<b>Appearance / Colour</b>	Liquid/ dark brown color.
<b>Density</b>	1.05 - 1.09 kg/L (25°C).

# APPLICATION INFORMATION

## Recommended Dosage

Typical dosage rates of SikaGrind® LS 3388 are between 0.3 – 0.6 kg per tonne of cement (0.03 % – 0.06 % of total weight = cement clinker + additions). The optimum dosage to achieve the desired characteristics shall be determined in Plant trials. Influencing factors are e.g. the properties of clinker source, type of cement and other plant variables.  
For consistent results, SikaGrind® LS 3388 must be accurately dispensed.

## Compatibility

Cements treated with SikaGrind® LS 3388 are compatible in concretes produced with all commercial admixtures including air entrainers, water reducers, retarders and superplasticizers. The performance of concrete admixtures is not adversely affected by the use of SikaGrind® LS 3388.

## 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.

## APPLICATION INSTRUCTIONS

### DISPENSING

SikaGrind® LS 3388 is added onto the clinker feed shortly before the mill entrance or directly into the grinding mill (first or second compartment). Suitable dosage pumps with adjustable flow rates shall be used for accurate dosing.

Note: Periodically, the end of the additive tube/hose shall be checked to ensure that it is not blocked.

## LOCAL RESTRICTIONS

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

### Sika Limited (Vietnam)

Nhon Trach 1 Industrial Zone,  
Nhon Trach Dist., Dong Nai Province,  
Vietnam

Tel: (84-251) 3560 700

Fax: (84-251) 3560 699

sikavietnam@vn.sika.com



### Product Data Sheet

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