

## PRODUCT DATA SHEET

# SikaGrind®-160 KE

Strength Enhancing Grinding Aid for the Production of Cement

### DESCRIPTION

SikaGrind®-160 KE is a liquid cement grinding aid specifically designed to increase the output of cement grinding plants and obtain improved strength development for cements.

### USES

- Improve the production rate of the cement grinding system and increase the early and final strength of the cement

### CHARACTERISTICS / ADVANTAGES

- Neutralisation of electrical charges on the surface of the cement particles and separation of the cement particles

**SikaGrind®-160 KE 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 and 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 and improved powder flow characteristics

**SikaGrind®-160 KE gives the following advantages to the finished cement:**

- Reduced quantity of “over-milled” particles in the cement granulometry and easier discharge of the silos, Increased early and final strengths, and economic cement design with clinker replacement

### PRODUCT INFORMATION

Composition	Aqueous blend of minerals and polymers
Packaging	1000 kg IBC Tanker on customer's request
Appearance / Colour	Brown liquid
Shelf life	12 months from date of production
Storage conditions	Store in undamaged and unopened in original containers at temperatures between +5 °C and +35 °C. Protect from frost, direct sunlight and contamination.
Density	1.15 ± 0.02 (Kg/l)

### APPLICATION INFORMATION

#### Recommended dosage

Typical dosage rates of SikaGrind®-160 KE is between 0.5–2.0 kg per tonne of cement (0.05–0.20 % of total weight = cement clinker + additions). Prior plant trials are necessary to determine the optimum dosage for desired results because of variables such as clinker properties and source, and

type of cement among others.

## Compatibility

Cements treated with SikaGrind®-160 KE 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®-160 KE

## 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

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

### DISPENSING

SikaGrind®-160 KE 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

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses

## 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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