

# PRODUCT DATA SHEET

## SikaGrind®-310

### GRINDING AND DISPERSANT AGENT FOR CEMENT AND CEMENT ADDITIVES

#### DESCRIPTION

SikaGrind®-310 is a highly efficient, chloride free liquid grinding aid, developed for use in cement manufacturing and mineral processing (cement additives).

#### USES

SikaGrind®-310 offers a powerful dispersing effect in the particles, due to the neutralization of the electrical charges developed during the milling process.

#### CHARACTERISTICS / ADVANTAGES

SikaGrind®-310 provides the following advantages:

- Prevents the adherence of material on the balls (coating), increasing thus its effectiveness
- Mill and separator yields are improved, with significant increases in the production and energy savings
- Reduces the formation of "superfine" particles

#### APPROVALS / CERTIFICATES

SikaGrind®-310 is produced under Quality management systems according to EN ISO 9001.

#### PRODUCT INFORMATION

<b>Chemical base</b>	Aqueous solution of modified polyols
<b>Packaging</b>	IBC Bulk deliveries
<b>Appearance / Colour</b>	Brown liquid
<b>Shelf life</b>	12 months from date of production
<b>Storage conditions</b>	Store in undamaged, unopened and sealed original containers at temperatures between +5°C and +35°C. Protect from frost, direct sunlight and contamination. Note: When delivered in bulk, the tanks and equipment used must be free from contaminants.
<b>Density</b>	~ 1.08 kg/l (at +20°C)
<b>pH-Value</b>	~ 12.5

## APPLICATION INFORMATION

### Recommended Dosage

Typical dosage rates of SikaGrind®-310 are between 0.3 -0.5 kg per tonne of cement (0.03% - 0.05% 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®-310 must be accurately dispensed.

### Compatibility

Cements treated with SikaGrind®-310 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®-310.

### Dispensing

SikaGrind®-310 shall be added onto the fresh 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.

## 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.

## LOCAL RESTRICTIONS

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

## 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.

## 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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