

## PRODUCT DATA SHEET

# SikaGrind®-272

Grinding Aid and Quality Improver for the production of cement and slag

### DESCRIPTION

SikaGrind®-272 is a chloride free, cement and slag liquid additive.

### USES

- Increase the strength development of cement
- Improve the production rate of the cement and slag grinding system

### CHARACTERISTICS / ADVANTAGES

SikaGrind®-272 is a dispersant with the following characteristics:

- Chemical activation of the hydration process (cement)
- Neutralisation of electrical charges on the surface of the particles
- Separation of the cement or slag particles

SikaGrind®-272 provides the following advantages in the cement and slag production:

- Enhanced grinding performance of the mill
- Higher separator efficiency
- Higher mill output (tons per hour)
- Reduced relative power consumption per ton of material
- Easier achievement of the desired binder fineness (Blaine, particle fraction > 45µm, grain size distribution)

SikaGrind®-272 gives the following advantages to the finished cement:

- Reduced quantity of “over-milled” particles in the binder grading
- Increased strength development especially at early ages
- Earlier set time characteristics
- Economic cement design with clinker replacements

### APPROVALS / CERTIFICATES

SikaGrind®-272 is produced under Quality management systems according to EN ISO 9001.

### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of amino alcohols
<b>Packaging</b>	1000 kg IBC Bulk deliveries
<b>Shelf life</b>	At least 12 months in undamaged, unopened and sealed original containers.
<b>Storage conditions</b>	Stored 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.

Material compatibility: Storage and transport in stainless steel or plastic containers (such as polyethylene (PE), polypropylene (PP), rigid PVC).

<b>Appearance and colour</b>	Brown liquid
<b>Density</b>	1.07 ± 0.02 kg/l (at +20°C)
<b>pH-Value</b>	8.0 ± 1.0

## APPLICATION INFORMATION

<b>Recommended dosage</b>	Typical dosage rates of SikaGrind®-272 are between 0.3 - 0.6 kg per ton of cement or slag (0.03% - 0.06% of total weight = cement clinker + additions or simply slag). The optimum dosage to achieve the desired characteristics shall be determined in plant trials. Influencing factors are e.g. the properties of clinker, type of cement, hardness of the slag and other plant variables. For consistent results, SikaGrind®-272 must be accurately dispensed (see the section Dispensing).
<b>Dispensing</b>	SikaGrind®-272 shall be 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.
<b>Compatibility</b>	Cements treated with SikaGrind®-272 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®-272.

## 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.

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## 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.

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