

# PRODUCT DATA SHEET

## SikaGrind®-8710

### EFFICIENT GRINDING AID & PERFORMANCE ENHANCER FOR CEMENT

#### DESCRIPTION

SikaGrind®-8710 is a chloride free liquid cement grinding aid with performance enhancing properties. SikaGrind®-8710 has been specifically designed to increase the output of cement grinding plants and obtain improved strength development for cements at all ages.

#### USES

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

#### CHARACTERISTICS / ADVANTAGES

SikaGrind®-8710 is a dispersant with the following characteristics:

- Neutralisation of electrical charges on the surface of the cement particles, reducing agglomeration of ground cement particles (better dispersion)
- Less coating (accumulation of material) on grinding media and mill internals

SikaGrind®-8710 provides the following advantages in the cement production:

- Enhanced grinding performance of the cement mill
- Higher separator efficiency
- Higher mill output (tons per hour)
- Reduced relative power consumption per ton of cement
- Easier achievement of the desired cement fineness (Blaine, particle fraction > 45µm, granulometry)
- Minimized problems with “plugging” due to improved powder flow characteristics

SikaGrind®-8710 gives the following advantages to the finished cement:

- Reduced quantity of “over-milled” particles in the cement granulometry
- Easier discharge of the silos
- Increased strength development at all ages
- Economic cement design with clinker replacements

#### PRODUCT INFORMATION

Chemical Base	Aqueous polymers solution
Packaging	Bulk delivery
Appearance / Colour	Reddish brown liquid
Shelf Life	Twelve (12) months when stored as stated.
Storage Conditions	Store in unopened and sealed original containers at temperatures between +5°C and +35°C. Protect from frost, direct sunlight and contamination. <b>Note:</b> Tanks and equipment used must be free from contaminants.
Specific Gravity	1.10 +/- 0.03 kg/l (at +20°C)

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	For consistent results, SikaGrind®-8710 must be accurately dispensed. Typical dosage rates of SikaGrind®-8710 are between 0.2 to 0.6 kg per tonne of cement (0.02% - 0.06% of total weight of cement clinker and additions). The optimum dosage to achieve the desired characteristics shall be determined in plant trials. Influencing factors include the properties of clinker source, type of cement and other plant variables.
<b>Compatibility</b>	Cements treated with SikaGrind®-8710 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®-8710.
<b>Dispensing</b>	SikaGrind®-8710 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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