

PRODUCT DATA SHEET

SikaGrind®-201 EXP KE

Strength enhancing grinding aid

DESCRIPTION

SikaGrind®-201 EXP KE is a chloride free grinding aid for portland cement and other hydraulic cements. SikaGrind®-201 EXP KE is designed to improve the efficiency of the grinding process, reduce the energy for grinding clinker, and enhance early strength development.

USES

SikaGrind®-201 EXP KE is used for cement grinding in order to:

- Neutralization of electrical charges on the surface of the cement particles thus enhancing mill efficiency and productivity
- Separation of the cement particles.
- Improve the cement quality

CHARACTERISTICS / ADVANTAGES

SikaGrind®-201 EXP KE is a very effective dispersant with the following characteristics:

- Reduction of the agglomeration forces on the particle surface
- Reduction of the particle attraction

SikaGrind®-201 EXP KE provides the following advantages in the cement production:

- Increases the efficiency of the separator, thanks to good dispersion
- Required fineness is faster achieved
- Reduced share of oversize particles
- Lower coating of balls and mill interior with cement
Lower specific grinding energy (kWh/t) thereby enhancing cost reduction
- Improved powder flowability and easier handling

SikaGrind®-201 EXP KE gives the following advantages to the finished cement:

- Reduced handling/transport cost, especially in air slide channel
- Easy discharge of silos
- Optimised particle distribution, less over-ground
- Increased early and final mechanical strength
- Can be used to reduce the clinker factor thus optimizing the economics of production costs.

PRODUCT INFORMATION

Composition	Aqueous blend of minerals and polymers
Packaging	<ul style="list-style-type: none"> ▪ 200 kg non returnable drum ▪ 1000 kg IBC ▪ Bulk deliveries on request
Shelf life	12 months from date of production

Storage conditions	<ul style="list-style-type: none"> ▪ Store in undamaged, unopened and sealed original containers at temperatures between +5 °C and +35 °C. Protect from frost, direct sunlight and contamination. ▪ When delivered in bulk, the tanks and equipment used must be free from contaminants.
Appearance / Colour	Brown Liquid
Density	1.15 ± 0.02 kg/l
pH-Value	9.0 ± 1.0
Recommended dosage	The typical dosage rate of SikaGrind®-201 EXP KE is 0.4 – 1 kg per tonne of cement (0.04-0.1 % 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, SCM and other plant variables. For consistent results, SikaGrind®-201 EXP KE must be accurately dispensed.
Dispensing	SikaGrind®-201 EXP KE is added onto the clinker feed shortly before the mill entrance or directly into the grinding mill. 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!
Compatibility	Cements treated with SikaGrind®-201 EXP KE are compatible in concretes produced with all commercial admixtures including air entrainers, water reducers, retarders and superplasticizers. The performance of concrete admixtures are not adversely affected by the use of SikaGrind®-201 EXP 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 further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products.

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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