

PRODUCT DATA SHEET

SikaGrind®-312

DISPERSANT AGENT AND GRINDING AID FOR CEMENT AND MINERAL ADDITIVES

DESCRIPTION

SikaGrind®-312 is a highly efficient, chloride free liquid grinding aid, developed for use in cement manufacturing and mineral processing (cement additives).

USES

SikaGrind®-312 is used during clinker and cement additives grinding in order to:

- Increase the productivity of the factory
- Improve the efficiency of the mill and the separator
- Improve cement quantity

SikaGrind®-312 offers extremely effective particle dispersion, due to neutralization of electrical charges that are created during the grinding process.

CHARACTERISTICS / ADVANTAGES

SikaGrind®-312 is a very effective grinding aid that provides the following advantages:

- Eliminates all electrical charges on the surface of the grinded material
- Reduces the agglomeration of already grinded clinker particles (better dispersion)
- 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
- Offers faster achievement of the desired fineness

APPROVALS / CERTIFICATES

SikaGrind®-312 is produced under Quality management systems according to EN ISO 9001.

PRODUCT INFORMATION

Chemical base	Aqueous solution of modified polyols
Packaging	IBC Bulk supply upon request
Appearance / Colour	Liquid, light brown
Shelf life	12 months from date of production
Storage conditions	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.
Density	~ 1.10 kg/l (at +20°C)
pH-Value	5.0 - 7.5
Total Chloride Ion Content	Free

APPLICATION INFORMATION

Recommended Dosage	Typical dosage rates of SikaGrind®-312 are between 0.3 -0.6 kg per tonne of cement (0.03% - 0.06% 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®-312 must be accurately dispensed.
Compatibility	Cements treated with SikaGrind®-312 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®-312.
Dispensing	SikaGrind®-312 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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