

PRODUCT DATA SHEET

SikaGrind®-341

Grinding aid and early strength enhancer for cement production

DESCRIPTION

SikaGrind®-341 is a liquid additive designed for the cement milling process. It increases significantly the mill production and enhances early strength development.

USES

SikaGrind®-341, due to its composition, contributes especially to the development of the early mechanical strengths of cement, making it particularly suitable for the production of cements with high clinker replacements.

CHARACTERISTICS / ADVANTAGES

SikaGrind®-341 is a very effective dispersant with the following characteristics:

- It avoids the cement particle agglomeration by neutralizing the surface electrical charges
- Improves the cement hydration process and therefore the early strength development

SikaGrind®-341 provides the following advantages:

- Improved efficiency of the mill and separator, with significant production increase, decreasing the energy costs
- The interior of the mill (balls, lining, diaphragms) is maintained in optimal conditions, preventing the "coating" formation
- Optimization of the granulometric curve, avoiding formation of superfine particles
- Activation of the cement hydration reactions, enhancing strengths at all ages
- Due to its dispersing effect, reduces handling time (pneumatic transport, charge/ discharge operations, bagging)
- Reduction of the hydration risk inside the silo

APPROVALS / CERTIFICATES

SikaGrind®-341 is produced under Quality management systems according to EN ISO 9001.

PRODUCT INFORMATION

Composition	Aqueous solution of modified polyols
Packaging	IBC Bulk supply upon request
Appearance / Colour	Liquid, brown
Shelf life	12 months from date of production
Storage conditions	Store in undamaged, unopened and sealed original containers when 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.
Density	~ 1.30 kg/l (at +20°C)
pH-Value	6.5 - 10.0

APPLICATION INFORMATION

Recommended dosage	Typical dosage rates of SikaGrind®-341 are between 0.5 -1.5 kg per tonne of cement (0.05% - 0.15% 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®-341 must be accurately dispensed.
Compatibility	Cements treated with SikaGrind®-341 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®-341.
Dispensing	SikaGrind®-341 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.

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.

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.

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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