

PRODUCT DATA SHEET

SikaGrind®-870

Efficient grinding aid and quality improver for the production of cement

DESCRIPTION

SikaGrind®-870 is a chloride free, liquid cement additive.

SikaGrind®-870 is powered by Sika® ViscoCrete® to optimize the efficiency of modern separators and cement mills.

USES

- Increase the production rate of cement
- Increase the early and final strength of cement

CHARACTERISTICS / ADVANTAGES

SikaGrind®-870 provides the following advantages in the cement production:

- Increased production rate
- Easier achievement of the desired cement fineness
- Cost savings due to lower specific power consumption per ton

SikaGrind®-870 provides the following advantages to the finished cement:

- Increased early strength
- Improved powder flow characteristics

APPROVALS / STANDARDS

SikaGrind®-870 is produced under Quality management systems according to EN ISO 9001.

PRODUCT INFORMATION

Chemical Base	Blend of polycarboxylates and amines
Packaging	1000 kg IBC Bulk deliveries
Appearance / Colour	Yellowish liquid
Shelf Life	At least 12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage Conditions	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	1.07 ± 0.03 kg/l (at +20°C)
pH-Value	8.0 ± 1.0

Viscosity < 35 mPas (at +20°C)

Total Chloride Ion Content < 0.1 M%

APPLICATION INFORMATION

Recommended Dosage	Typical dosage rates of SikaGrind®-870 are between 0.2 - 0.5 kg per ton of cement (0.02% - 0.05% 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, type of cement and other plant variables. For consistent results, SikaGrind®-870 must be accurately dispensed.
Compatibility	Cements treated with SikaGrind®-870 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®-870.
Dispensing	SikaGrind®-870 shall be 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.

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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