

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

FEATURES

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

PRODUCT INFORMATION

Composition	Blend of polycarboxylates and amines
Packaging	1100 kg IBC (Intermediate bulk containers) Bulk deliveries
Appearance and colour	Yellowish liquid
Shelf life	12 months 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 %

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.
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.
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.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent Sika corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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.

Sika Gulf B.S.C. (c)

Tel: +973 177 38188
Email: info@bh.sika.com
Sika Kuwait Cons. Mat. & Paints Co WLL
Tel: +965 22 282 296
Email: sika.kuwait@kw.sika.com
Web: gcc.sika.com

Sika UAE LLC

Sika MB Construction Chemicals LLC
Sika International Chemicals LLC
Tel: +971 4 439 8200
Email: info@ae.sika.com
Web: gcc.sika.com

Sika Saudi Arabia Limited

Sika Construction Chemicals for Manufacturing LLC
Riyadh / Jeddah / Dammam / Rabigh
Tel: +966 12 692 7079
Email: info@sa.sika.com
Web: gcc.sika.com

Sika LLC - Oman

Master Builders Solutions LLC
(part of Sika)
Tel: +968 22 826 500
Email: info@om.sika.com
Web: gcc.sika.com



ISO 9001, 14001, 45001 - SGS
- Sika UAE LLC
- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
- Sika MB Construction Chemicals for Manufacturing LLC
- Sika MB Construction Chemicals for Manufacturing LLC
- Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Product Data Sheet

SikaGrind®-870

October 2024, Version 01.01
02140702100000059

