

PRODUCT DATA SHEET

SikaGrind®-100 BH

EFFICIENT GRINDING AID & PERFORMANCE ENHANCER FOR CEMENT

DESCRIPTION

SikaGrind®-100 BH is a chloride free liquid cement grinding aid with performance enhancing properties. SikaGrind®-100 BH has been specifically designed to increase the output of cement grinding plants and obtain improved early strength development for cements with high amount of clinker replacements.

USES

- Improve the production rate of the cement grinding system
- Increase the early strength of cement

CHARACTERISTICS / ADVANTAGES

SikaGrind®-100 BH is a dispersant with the following characteristics:

- Neutralisation of electrical charges on the surface of the cement particles
- Reduced agglomeration of ground cement particles (better dispersion)
- Less coating (accumulation of material) on grinding media and mill internals

SikaGrind®-100 BH provides the following advantages in the cement production:

- Enhanced grinding performance of the cement mill
- Higher separator efficiency
- Higher mill output (tons per hour)
- Reduced relative power consumption per ton of cement
- Easier achievement of the desired cement fineness (Blaine, particle fraction > 32µm, granulometry)
- Minimized problems with “plugging” due to improved powder flow characteristics

SikaGrind®-100 BH gives the following advantages to the finished cement:

- Reduced quantity of “over-milled” particles in the cement granulometry
- Easier discharge of the silos
- Increased early strengths after 1 and 2 days
- Economic cement design with clinker replacements

PRODUCT INFORMATION

Composition	Blend of amines
Packaging	200 L drum 1000 L flowbin
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +45°C. Protect from frost, direct sunlight and contamination
Appearance and colour	Brown liquid
Density	~1.05 kg/l (+25°C)

Recommended dosage

Typical dosage rates of SikaGrind®-100 BH are between 0.2 - 0.8 kg per ton of cement (0.02% - 0.08% of total weight = cement clinker + additions). The optimum dosage to achieve the desired characteristics shall be determined in plant trials. Influencing factors are properties of clinker source, type of cement and other plant variables.
For consistent results, SikaGrind®-100 BH must be accurately dispensed.

Dispensing

SikaGrind®-100 BH is added into the grinding mill (first or second compartment), onto the clinker feeding channel or sprinkled / dropped onto the clinker (raw material) on the conveyor belt. Suitable dosage pumps with adjustable flow rates should be used for accurate dosing.
Note: Periodically, the end of the additive tube/hose should be checked to ensure, that it is not blocked.

Compatibility

Cements treated with SikaGrind®-100 BH 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®-100 BH.

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 corresponding Safety Data Sheets before using any products. 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

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.

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ISO 9001: Sika UAE LLC,
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ISO 14001: Sika UAE LLC,
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Sika Saudi Arabia Limited,
Sika International Chemicals LLC,
ISO 45001: Sika UAE LLC,
Sika Gulf B.S.C. (C),
Sika International Chemicals 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.

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