

PRODUCT DATA SHEET

SikaGrind®-1 EXP

Cement additive

DESCRIPTION

SikaGrind®-1 EXP is a liquid, chloride-free cement additive. SikaGrind®-1 EXP facilitates the grinding and improves the quality of all cement types. SikaGrind®-1 EXP has specially developed to increase the early and final mechanical strengths.

USES

SikaGrind®-1 EXP is used for cement grinding in order to:

- Increase the productivity
- Improve the efficiency off the mill and the separator
- Improve the cement quality

CHARACTERISTICS / ADVANTAGES

SikaGrind®-1 EXP is a very effective dispersant with the following characteristics:

- Reduction of the agglomeration forces on the particle surface
- Reduction of the particle attraction

SikaGrind®-1 EXP provides the following advantages in the cement production:

- Increases the efficiency of the separator, thanks to good dispersion
- Required fineness is faster achieved
- Reduced share of oversize particles
- Lower coating of balls and mill interior with cement
- Lower specific grinding energy (kWh/t), cost reduction
- Improved powder flowability, therefore easier handling

SikaGrind®-1 EXP gives the following advantages to the finished cement:

- Reduced handling/transport cost, especially in air slide channel
- Easy discharge of silos
- Optimised particle distribution, less over-ground
- Increased early and final mechanical strength
- Can be used to reduce the clinker factor, therefore

economic earnings

PRODUCT INFORMATION

Composition	Blend of amines.
Packaging	<ul style="list-style-type: none">▪ 200 kg non returnable drum▪ 1000 kg IBC▪ Bulk deliveries on request
Appearance / Colour	Clear liquid
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	1.17 ± 0.02 kg/l
pH-Value	8.5 ± 2.0
Recommended dosage	The typical dosage rate of SikaGrind®-1 EXP is 0.4 – 1 kg per tonne of cement (0.04-0.1 % 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, SCM and other plant variables. For consistent results, SikaGrind®-1 EXP must be accurately dispensed.
Compatibility	Cements treated with SikaGrind®-1 EXP are compatible in concretes produced with all commercial admixtures including air entrainers, water reducers, retarders and superplasticizers. The performance of concrete admixtures are not adversely affected by the use of SikaGrind®-1 EXP.

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.

DISPENSING

SikaGrind®-1 EXP is 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!

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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