

PRODUCT DATA SHEET

SikaGrind®-351 GR

GRINDING AID FOR CEMENT PRODUCTION

DESCRIPTION

SikaGrind®-351 GR is a chloride free liquid additive designed to allow easier grinding and enhance the characteristics of cement.

USES

SikaGrind®-351 GR can be used in general for all cement types in order to:

- Increase the production rate
- Improve the efficiency of the mill and separator

CHARACTERISTICS / ADVANTAGES

SikaGrind®-351 GR 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 strength development

SikaGrind®-351 GR provides the following advantages:

- Higher mill and separator efficiency, offering significant production increase and decreasing the energy costs
- Reduces the “coating” formation, maintaining the effectiveness of the ball charge.
- The distribution of the particle size is improved, avoiding the formation of the “over milled” particles
- It intervenes in the cement hydration process, enhancing strength development, especially at early phase
- Reduced silos blockage risk
- Due to its effectiveness as a dispersant, it enables easier handling operations (pneumatic conveyors, silo extraction, e.t.c.)

APPROVALS / CERTIFICATES

SikaGrind®-351 GR is produced under Quality management systems according to EN ISO 9001.

PRODUCT INFORMATION

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| Composition | Aqueous solution of modified amino alcohols |
| Packaging | 1000 kg IBC Bulk deliveries upon request |
| Appearance / Colour | Liquid, light brown |
| Shelf life | 12 months from date of production |
| Storage conditions | Store properly in undamaged, unopened, original sealed 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 | ~ 1,10 kg/l (at +20°C) |
| pH-Value | ~ 8 |
| Total Chloride Ion Content | Chloride free |

APPLICATION INFORMATION

Recommended Dosage

Typical dosage rates of SikaGrind®-351 GR are between 0,3 -0,6 kg per tonne of cement (0.03% - 0.06% 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®-351 GR must be accurately dispensed.

Compatibility

Cements treated with SikaGrind®-351 GR 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®-351 GR.

Dispensing

SikaGrind®-351 GR 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.

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.

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