

PRODUCT DATA SHEET

SikaGrind®-876 CIS

EFFICIENT GRINDING AID AND PERFORMANCE ENHANCER FOR CEMENT

DESCRIPTION

SikaGrind®-876 CIS is a chloride free liquid cement grinding aid with performance enhancing properties. SikaGrind®-876 CIS has been specifically designed to increase the output of cement grinding plants and obtain improved early strength development for cement even with high amount of clinker replacement.

USES

SikaGrind®-876 CIS is used in the cement grinding plant to :

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

CHARACTERISTICS / ADVANTAGES

SikaGrind®-876 CIS is a dispersant with the following characteristics:

- Neutralisation of electrical charges on the surface of the cement particles
- Separation of the cement particles

SikaGrind®-876 CIS provides the following advantages in the cement production:

- Enhanced grinding properties of the cement mill due to less accumulation of material on grinding media and mill liners
- Higher separator efficiency due to improved cement particle dispersion
- Reduced relative power consumption per tonne of cement due to increase of output of the grinding system (kwh/t)
- Easier achievement of the desired cement fineness (Blaine number, Particle fraction less than 32 µm, granulometry) due to reduced re-agglomeration of ground cement particles

SikaGrind®-876 CIS gives the following advantages to the finished cement:

- Reduced quantity of 'over-milled' particles in the cement
- Increased strength after 1 and 2 days
- Economic cement design with clinker replacement

PRODUCT INFORMATION

Composition	Aqueous solution
Packaging	1 000 liters IBC
Appearance / Colour	Brown liquid
Shelf Life	At least 12 months in undamaged, unopened and sealed original containers
Storage Conditions	Store at temperatures between +5 °C and +35 °C. Protect from frost, direct sunlight and contamination. Note: When stored in bulk, the tanks and equipment used must be free from contaminants.
Density	1.21 ± 0.03 kg/l (at +25 °C)

SYSTEM INFORMATION

Compatibility

Cements treated with SikaGrind®-876 CIS are compatible in concrete produced with all commercial admixtures including air entrainers, water-reducers, retarders and super-plasticizers. The performance of concrete admixtures is not adversely affected by the use of SikaGrind®-876 CIS.

APPLICATION INFORMATION

Recommended Dosage

Typical dosage rates of SikaGrind®-876 CIS are between 0.2 - 0.5 kg per tonne of cement (0.02 - 0.05 % of total weight = cement clinker + additions). The optimum dosage, which changes according to the properties of each clinker source, type of cement and other plant variables, should be determined in plant trials according to the desired properties of the cement.

For consistent results, SikaGrind®-876 CIS must be accurately dispensed.

APPLICATION INSTRUCTIONS

DISPENSING

SikaGrind®-876 CIS 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: The end of the additive tube should be checked periodically, to ensure that it is not blocked with cement clinker/dust.

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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