

PRODUCT DATA SHEET

SikaGrind®-133 Activator

HIGH EFFICIENCY GRINDING AID & QUALITY IMPROVER FOR CEMENT PRODUCTION

DESCRIPTION

SikaGrind®-133 Activator is cement grinding aid with performance enhancing properties. SikaGrind® 133 Activator has been specifically designed to increase the output of cement grinding plants and improve strength development with high amount of clinker replacements.

USES

SikaGrind®-133 Activator is used for horizontal ball mill and vertical roller mill applications in the grinding of cement in order to:

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

FEATURES

SikaGrind®-133 Activator is a dispersant with the following characteristics:

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

SikaGrind®-133 Activator provides the following advantages in the cement production:

- Enhanced grinding properties of the cement mill due to less accumulation of material on grinding balls and mill-liners.

- Higher separator efficiency due to improved cement particles dispersion.
- Reduced relative power consumption per ton of cement due to increased output of the grinding system (tons per hour).
- Easier achievement of the desired cement fineness (Blaine, particle fraction $> 32 \mu\text{m}$, granulometry) due to reduced re-agglomeration of the sufficiently ground cement particles.
- Improvement in production capacity is up to 20 % depending on the characteristics of materials and grinding mill.
- Minimized problems with "plugging" due to improved powder flow characteristics.

SikaGrind®-133 Activator 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 and ultimate strengths. Strength improvement is up to 25 % for both early and ultimate strengths depending on the characteristics of materials and grinding mill.
- Economic cement design with clinker replacements.

CERTIFICATES AND TEST REPORTS

SikaGrind®-133 Activator is produced under Quality Management Systems according to EN ISO 9001.

PRODUCT INFORMATION

Composition	Organic & inorganic solutions
Packaging	1000 Kg IBC 1000 Kg bulk delivery
Appearance and colour	Liquid / yellow

Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +10 °C and +35 °C. Protect from direct sunlight and frost.

APPLICATION INFORMATION

Recommended dosage	300 – 800 ppm by weight of mill feed. 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®-133 Activator must be accurately dispensed.
Compatibility	SikaGrind®-133 Activator is compatible with all types of cement. It complies with ASTM C465-19 as a non-harmful processing additive.
Dispensing	SikaGrind®-133 Activator is 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 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.

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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