

PRODUCT DATA SHEET

SikaGrind®-237 Optimizer

Cement additive engineered for enhancement of cement late strength and reduction of unit grinding energy/ increase of cement mill throughput

DESCRIPTION

SikaGrind® -237 Optimizer is a liquid, ready-to-use cement additive designed to enhance cement performance. In addition to acting as a Grinding Aid in the milling process and a flow aid in cement conveyance, SikaGrind® -237 Optimizer improves specific cement properties by the activity of its chemical components. These act in the modification of clinker characteristics and in the enhancement of its hydraulic properties. SikaGrind® -237 Optimizer is specifically designed to increase late strength of cement. These benefits can be used either for achieving superior product performance or for cement optimization while maintaining the original performance level. Typical late strength improvement is +5-15% at 28 days vs. plain control. However, product performance is dependent on grinding equipment characteristics, process conditions, raw material properties and cement type. To best benefit from cement additives, mill and separator process parameters may need to be adapted. SikaGrind® -237 Optimizer improves the flow characteristics of cement with positive impact on cement conveyance and reduction of pack-set in storage

USES

SikaGrind® -237 Optimizer is developed for application in the cement grinding process in:

- Ball mills (closed and open circuits)
- Vertical mills
- Other grinding systems, such as: GGBS grinding

FEATURES

SikaGrind® -237 Optimizer offers the following benefits to cement producers:

- Cost reduction due to lower unit grinding energy (kWh/t) and optimization of cement fineness and composition while maintaining cement properties
- Capacity extension due to higher mill throughput and

optimized cement recipe

- Sustainability due to reduced clinker factor and specific CO2 emissions. Gain of carbon credits
- Product differentiation due to enhanced cement performance and improved properties for the final application
- Improved cement handling due to faster cement conveyance through the plant and in the distribution logistics. Reduction of plant stops and optimized storage in silos

CERTIFICATES AND TEST REPORTS

SikaGrind® -237 Optimizer fulfils the European cement standard EN 197.1.

PRODUCT INFORMATION

Packaging	SikaGrind® -237 Optimizer is available in bulk and 1,100kg IBC.
Shelf life	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Appearance and colour	Clear Brown Liquid
Specific gravity	1.084 at 25 °C
pH-Value	10 ± 1
Recommended dosage	SikaGrind® -237 Optimizer can be metered onto the mill feeders or injected into the mill. The recommended dosage rate is between 250-500g per ton of cement. Other dosages may be required in specific situations. The optimum dosage should be evaluated in plant trials. For further questions please consult our Technical Service. Calibrated dosing equipment with an adjustable flow rate and appropriate dosage range is recommended to obtain the maximum performance of the product
Compatibility	SikaGrind® 237-Optimizer is compatible with all types of cements.

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

LEGAL NOTES

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