

PRODUCT DATA SHEET

SikaGrind® LS 3111

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

DESCRIPTION

SikaGrind® LS 3111 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® LS 3111 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. Products of the SikaGrind® LS series are 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. SikaGrind® LS 3111 improves the flow characteristics of cement with positive impact on cement conveyance and reduction of pack-set in storage.

USES

SikaGrind® LS 3111 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® LS 3111 is compatible with all types of cements and 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® LS 3111 fulfils the European cement standard EN 197.1.

PRODUCT INFORMATION

Packaging	SikaGrind® LS 3111 is available in bulk and Intermediate Bulk Container (IBC)
Appearance and colour	Brown liquid
Shelf life	If stored in unopened containers according to manufacturer's instructions, the shelf life is 12 months
Storage conditions	It is recommended to store SikaGrind® LS 3111 at temperatures above 5 °C. Pipes should be thermally isolated.
Density	1.05–1.11 g/cm ³ at 25 °C
pH-Value	7–9.5

APPLICATION INFORMATION

Compatibility SikaGrind® LS 3111 is compatible with all types of cement

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.

IMPORTANT CONSIDERATIONS

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SikaGrind® LS 3111 can be metered onto the mill feeders or injected into the mill. The recommended dosage rate is between 200 - 600 g per ton of cement. Other dosages may be required in specific situations. The optimum dosage should be evaluated in plant trials. For further information please consult Sika Technical Department.

Calibrated dosing equipment with an adjustable flow rate and appropriate dosage range is recommended to obtain the maximum performance of the product.

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ISO 9001, 14001, 45001 – SGS
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ISO 9001, 14001 – SGS
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ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Sika Construction Chemicals for Manufacturing LLC
ISO 9001 – LMS
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All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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