

PRODUCT DATA SHEET

SikaGrind®-3111 Activator

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

DESCRIPTION

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

USES

SikaGrind®-3111 Activator 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

PRODUCT INFORMATION

Packaging	IBC / Bulk
Appearance / 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®-3111 Activator at temperatures above 5 °C. Pipes should be thermally isolated.
Density	1.09 ±0.03

CHARACTERISTICS / ADVANTAGES

SikaGrind®-3111 Activator 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.

APPROVALS / STANDARDS

SikaGrind®-3111 Activator fulfils the European cement standard EN 197.1

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.

LIMITATIONS

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®-3111 Activator 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.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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