

PRODUCT DATA SHEET

SikaGrind®-709 Activator MM

GRINDING AID AND QUALITY IMPROVER FOR THE PRODUCTION OF CEMENT

DESCRIPTION

SikaGrind®-709 Activator MM is a chloride-free liquid additive with strength-enhancing properties. SikaGrind®-709 Activator MM is specifically developed to obtain cements with strongly increased early and final strength.

USES

SikaGrind®-709 Activator MM is used in the grinding of cement to:

- Increase the production rate
- Increase the early and late strength of cement

FEATURES

SikaGrind®-709 Activator MM provides the following advantages in the cement production:

- Less accumulation of material on grinding equipment (grinding balls and mill)
- Higher efficiency of plants (tons per hour) due to reduced grinding time per ton
- Higher separator efficiency due to improved dispersion
- Easier achievement of the desired cement fineness
- Cost savings due to lower power consumption per ton

SikaGrind®-709 Activator MM gives the following advantages to the finished cement:

- Increased early and final strength
- Improved powder flow characteristics and easier discharge of silos

PRODUCT INFORMATION

Composition	Blend of amines
Packaging	200Kg/Drum and 1000Kg/Tank
Appearance and colour	Transparent Liquid
Shelf life	12 months in undamaged, unopened and sealed original containers
Storage conditions	Stored at temperatures between +5°C and +35°C. Protect from frost, direct sunlight and contamination.
Density	1.035 - 1.065
pH-Value	9 - 12

APPLICATION INFORMATION

Recommended dosage	Typical dosage rates of SikaGrind®-709 Activator MM are between 0.2 - 0.6 kg per tonne of cement (0.02 - 0.06 % 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®-709 Activator MM must be accurately dispensed.
Dispensing	SikaGrind®-709 Activator MM is added onto the clinker feed shortly before the mill entrance or directly into the grinding mill. Suitable dosage pumps with adjustable flow rates should be used for accurate dosing. Note: Periodically, the extremity of the additive tube should be checked to ensure that it is not blocked with cement clinker/dust!
Compatibility	Cements treated with SikaGrind®-709 Activator MM are compatible in concretes produced with all commercial admixtures, including air entrainers, water reducers, retarders and superplasticizers. The performance of concrete admixtures are not adversely affected by the use of SikaGrind®-709 Activator MM.

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.

LIMITATIONS OF USE

Overdosing will result in increased workability and setting time of the Concrete, however, provided that curing is effective, ultimate concrete strength and properties will not be affected. Use an appropriate concrete mixer and do not mix by hand. Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

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.

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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October 2024, Version 01.02

021407021000000783

SikaGrind-709ActivatorMM-en-MM-(10-2024)-1-2.pdf