

PRODUCT DATA SHEET

SikaGrind®-190 Activator

Grinding aid and quality improver for early and final strengths

DESCRIPTION

SikaGrind®-190 Activator is a liquid additive to allow easier grinding of cement and enhance the quality of all types of cement. SikaGrind®-190 Activator has been specifically developed to obtain cements with strongly increased early and final strengths.

USES

SikaGrind®-190 Activator is used in the grinding of cement to:

- Increase the production rate
- Improve the efficiency of the mill and separator
- Enhance the quality of the cement

FEATURES

SikaGrind®-190 Activator is a very effective dispersant with the following characteristics:

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

SikaGrind®-190 Activator provides the following advantages in the cement production:

- Higher efficiency of the plants (tons per hour) due to reduced grinding time per ton
- Higher separator efficiency due to improved dispersion

- Faster achievement of the desired cement fineness
 - Reduced particle fraction > 32µ of the ground cement
 - Reduced re-agglomeration of the cement particles
 - Less accumulation of material on grinding equipment (grinding balls and mill)
 - Cost savings due to a lower power consumption per ton
 - Easier handling and minimized problems with “plugging” due to improved flow characteristics
 - Improved self-levelling of the cement in the silo
- SikaGrind®-190 Activator gives the following advantages to the finished cement:

- Reduced handling costs especially on pneumatic conveying systems
- Reduced risk of hydration in the silo
- Easier discharge of the silos
- Optimum cement granulometry (reduced quantity of “over-milled” particles)
- Increased early strengths
- Improved final strengths
- Allows economic cement design with clinker replacements
- Reduced water demand
- Uniform air entrainment in the stated dosage range
- Consistent setting times
- Reduced brown or yellow discolorations

PRODUCT INFORMATION

Composition	Blend of some special organics
Packaging	1,000lit IBC Bulk upon request
Shelf life	12 months from date of production
Storage conditions	Store in undamaged, unopened and sealed original containers at temperatures between +5 °C and +35 °C. Protect from frost, direct sunlight and contamination. Note: When delivered in bulk, the tanks and equipment used must be free

from contaminants.

Appearance and colour	Light brown liquid
Density	1.17 ± 0.01 kg/l
pH-Value	10.3 ± 1

APPLICATION INFORMATION

Recommended dosage	Typical dosage rates of SikaGrind®-190 Activator are between 0.2 – 1.0 kg per tonne of cement (0.02% - 0.1% 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®-190 Activator must be accurately dispensed.
Dispensing	SikaGrind®-190 Activator is added into the grinding mill (first or second compartment), onto the clinker feeding channel or sprinkled / dropped onto the clinker (raw material) on the conveyor belt. Suitable dosage pumps with adjustable flow rates should be used for accurate dosing. Note: Periodically, the end of the additive tube should be checked to ensure, that it is not blocked with cement clinker/dust.
Compatibility	Cements treated with SikaGrind®-190 Activator are compatible in concretes produced with all commercial admixtures including air entrainers, water reducers, retarders and superplasticizers. Performance of concrete admixtures are not adversely affected by use of SikaGrind®-190 Activator.

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

Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the safety data sheet.

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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