

PRODUCT DATA SHEET

SikaGrind®-2191 Activator IQ

Quality improver for the production of cement.

DESCRIPTION

SikaGrind®-2191 Activator IQ is a liquid additive to allow easier grinding of cement and enhance the quality of all types of cement. SikaGrind®-2191 Activator IQ has been specifically developed to obtain cements with strongly increased early and final strengths.

USES

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

FEATURES

SikaGrind®-2191 Activator IQ provides the following advantages in the cement production:

- Increased the production rate (tons per hour).
- Improved the grinding efficiency.
- Improved 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).
- Reduce relative energy consumption per ton of cement.
- Easier handling and minimized problems with “plugging” due to improved flow characteristics.

SikaGrind®-2191 Activator IQ gives the following advantages to the finished cement:

- Reduced handling costs especially on pneumatic conveying systems.
- Easier discharge of the silos.
- Improved self-levelling of the cement in the silo. Improved cement granulometry (reduced quantity of “over-milled” particles).

PRODUCT INFORMATION

Composition	Blend of some special organics.
Packaging	1000 KG IBC.
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	In dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight. It requires recirculation when held in storage for extended periods.
Appearance and colour	Brown liquid.
Specific gravity	1.075 ± (0.02) g/cm ³

Compatibility

Cements treated with SikaGrind®-2191 Activator IQ are compatible in concretes produced with all commercial admixtures including air entrainers, water reducers, retarders and superplasticizers. The performance of concrete admixtures is not adversely affected using SikaGrind®-2191 Activator IQ.

Recommended dosage

Typical dosage rates of SikaGrind®-2191 Activator IQ are between 0.1 – 0.8 kg per ton of cement (0.01% - 0.08% 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®-2191 Activator IQ must be accurately dispensed.

Dispensing

SikaGrind®-2191 Activator IQ 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.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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