

PRODUCT DATA SHEET

SikaGrind®-189 Activator KH

GRINDING AID AND QUALITY IMPROVER FOR THE PRODUCTION OF CEMENT

DESCRIPTION

SikaGrind®-189 Activator KH is a chloride-free liquid additive with strength-enhancing properties. SikaGrind®-189 Activator KH is specifically developed to obtain cements with strongly increased early and final strength.

USES

SikaGrind®-189 Activator KH is used in the grinding of cement clinker to:

- Increase the production rate.
- Improve the late strength of cement.

FEATURES

SikaGrind®-189 Activator KH 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®-189 Activator KH gives the following advantages to the finished cement:

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

PRODUCT INFORMATION

Packaging	1000 KG , IBC Bulk delivery
Shelf life	1 year in original unopened container when properly stored.
Storage conditions	Store dry, between 5 - 35 °C (41 - 95 °F). Protect from freezing, direct sunlight and contamination. When delivered in bulk, the tanks and equipment used must be free from contaminants.
Density	1.040 ~ 1.20 kg/L (@ 25 deg Celcius)
Recommended dosage	<p>Typical dosage rates of SikaGrind®-189 Activator KH are between 0.2 - 1.3 kg per tonne of cement (0.02 - 0.13 % of total weight = cement clinker + additions).</p> <p>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.</p> <p>For consistent results, SikaGrind®-189 Activator KH must be accurately dispensed.</p>

Compatibility

Cements treated with SikaGrind®-189 Activator KH 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®-189 Activator KH.

Dispensing

SikaGrind®-189 Activator KH 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!

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.

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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