

## PRODUCT DATA SHEET

# SikaGrind®-59912 Activator

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**EFFICIENT GRINDING AID AND QUALITY IMPROVER FOR PORTLAND LIMESTONE CEMENT**

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**DESCRIPTION**

SikaGrind®-59912 Activator is a liquid cement grinding aid with performance enhancing properties. SikaGrind®-59912 Activator has been specifically designed to increase the output of cement grinding plants and obtain improved all age strength development for cements.

**USES**

- Improve the production rate of the cement grinding system
- Increase all age strength of the cement

**FEATURES**

SikaGrind®-59912 Activator is a dispersant with the following characteristics:

- Neutralisation of electrical charges on the surface of the cement particles;
- Reduced agglomeration of ground cement particles (better dispersion);
- Less coating (accumulation of material) on grinding media and mill internals.

SikaGrind®-59912 Activator provides the following advantages in the cement production:

- Enhanced grinding performance of the cement mill;
- Higher separator efficiency;
- Higher mill output (tons per hour);
- Reduced relative power consumption per ton of cement;
- Easier achievement of the desired cement fineness (Blaine, sieve residue);
- Minimized problems with “plugging”.

SikaGrind®-59912 Activator gives the following advantages to the cement:

- Increased strength development at all ages;
- Improved workability and improved particle size distribution;
- Improved powder flow characteristics and easier discharge of the silos;
- Economic and ecologic cement design with clinker replacements.

**PRODUCT INFORMATION**

Composition	Aqueous blend of amines and others
Packaging	1,000 kg IBC
Appearance and colour	Yellow liquid
Shelf life	12 months from the date of production if stored properly in undamaged, original, and sealed packaging.

<b>Storage conditions</b>	Store in dry conditions, protected from direct sunlight at temperature between + 5°C and + 25°C.
<b>Density</b>	1.085 – 1.110 g/cm <sup>3</sup> (25 °C (77 °F))
<b>pH-Value</b>	7.0 - 9.5 (25 °C (77 °F))
<b>Viscosity</b>	40 - 100 mPa.s (25 °C (77 °F))

## APPLICATION INFORMATION

<b>Recommended dosage</b>	Typical dosage rates of SikaGrind®-59912 Activator are between 0.50 – 1.50 kg per ton of cement. The optimum dosage to achieve the desired characteristics shall be determined in the plant trials. Influencing factors are e.g. the properties of clinker source, type of cement and other plant variables as well as other raw materials. For consistent results, SikaGrind®-59912 Activator must be accurately dispensed.
<b>Compatibility</b>	Cements treated with SikaGrind®-59912 Activator 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®-59912 Activator.
<b>Dispensing</b>	SikaGrind®-59912 Activator shall be added onto the clinker feed shortly before the mill entrance or directly into the grinding mill. Suitable dosage pumps with adjustable flow rates shall be used for accurate dosing. Periodically, the end of the additive tube/hose shall be checked to ensure that it is not blocked.

## 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 Material Safety Data Sheet containing physical, ecological, toxicological, and other safety-related data.

## 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.

**Sika (Thailand) Limited**  
700/37 Moo 5 Amata City Chonburi  
Industrial Estate, T. Klong Tamhru  
A. Muang, Chonburi 20000, Thailand  
Tel : +66 3810 9500  
E-mail : sikathai@th.sika.com  
Website: tha.sika.com



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## 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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