

## PRODUCT DATA SHEET

# SikaGrind®-1411 Activator EG

Grinding Aid And Quality Improver For The Production Of Cement

### DESCRIPTION

SikaGrind®-1411 Activator EG is a chloride free liquid additive to allow easier grinding of cement Vertical and Ball Mill and enhance the quality of all types of cement with strongly increased capacity and all ages of strengths.

### USES

SikaGrind®-1411 Activator EG is used in the grinding of Raw Materials and Clinker to:

- Increase the production rate.
- Improve the efficiency of the raw vertical, ball mill and separator.
- Enhance the quality of the ceme

### FEATURES

SikaGrind®-1411 Activator EG is a very effective dispersant with the following characteristics:

- Neutralization of electrical charges on the surface of cement particles.
- separation of the cement particles.

SikaGrind®-1411 Activator EG 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  $> 32\mu$  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.

SikaGrind®-1411 Activator EG 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 “overmilled” particles).
- increased early and final 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

<b>Composition</b>	Mix of amines and glycol
<b>Packaging</b>	Bulk 1000 Kg Tanker is possible on demand
<b>Appearance and colour</b>	
<b>Shelf life</b>	12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
<b>Storage conditions</b>	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
<b>Density</b>	1.070 ± 0.05
<b>pH-Value</b>	≥ 7.6
<b>Recommended dosage</b>	Typical dosage rates of SikaGrind®-1411 Activator EG are between 0.2–1 kg per ton of cement (0.02%–0.10% of the total weight of cement clinker plus additions), and the optimum dosage— which varies according to the properties of each clinker source, the type of cement, and other plant variables—should be determined through plant trials according to the desired cement properties. For consistent results, SikaGrind®-1411 Activator EG must be accurately dispensed.
<b>Compatibility</b>	SikaGrind®-1411 Activator EG is added into the grinding mill (first or second compartment), onto the clinker feeding channel, or sprinkled/dropped onto the clinker or raw material on the conveyor belt, and suitable dosage pumps with adjustable flow rates should be used for accurate dosing; additionally, the end of the additive tube should be checked periodically to ensure it is not blocked with cement clinker or dust.
<b>Dispensing</b>	Cements treated with SikaGrind®-1411 Activator EG are compatible with all commercial concrete admixtures, including air entrainers, water reducers, retarders, and superplasticizers, and the performance of these admixtures is not adversely affected by the use of SikaGrind®-1411 Activator EG; for any additional guidance, please consult our Technical Services Department.

## 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.

## LIMITATIONS OF USE

Before pouring, suitability tests on the fresh concrete must be carried out, and due to the extended workability, special care must be taken to ensure that formwork is properly installed and secured. If the product is frozen and/or precipitation has occurred, it may only be used after slowly thawing at room temperature followed by intensive mixing. When using SikaGrind®-1411 Activator EG, a suitable concrete mix must be designed for the local material sources and should be trialed to prevent premature drying out during the period in which the set-retarding effect and workability increase; additional air may also be entrained.

During this period, the concrete must be kept moist, and in the case of accidental overdosing, the set-retarding effect and workability will further increase.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage, and disposal of chemical products, the user should refer to the most recent Safety Data Sheet (SDS), which contains 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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