

PRODUCT DATA SHEET

SikaGrind®-154 Activator GH

Grinding Aid And Quality Improver For The Production Of Cement

DESCRIPTION

SikaGrind® -154 Activator is a chloride free liquid additive to allow easier grinding of cement and enhance the quality of all types of cement. SikaGrind® -154 Activator has been specifically developed to obtain cements with strongly increased capacity and all ages of strength.

USES

SikaGrind® -154 Activator is used in the grinding of cement to:

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

FEATURES

SikaGrind® -154 Activator is a very effective dispersant with the following characteristics:

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

SikaGrind® -154 Activator provides the following advantages in the cement production:

- Faster achievement of the desired cement fineness
- Reduced re-agglomeration of the cement particles
- Higher efficiency of the plants (tons per hour) due to reduced grinding time per ton
- Higher separator efficiency due to improved dispersion
- Less accumulation of material on grinding equipment (grinding balls and mill)
- Cost savings due to a lower power consumption per ton

SikaGrind® -154 Activator gives the following advantages to the finished cement:

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

PRODUCT INFORMATION

Composition	Amine
Packaging	1000 Kg IBC
Appearance and colour	Clear Brown Liquid
Shelf life	12months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight

and frost. Note: When delivered in bulk, the tanks and equipment used must be free from contaminants

pH-Value	11±1
Total chloride ion content	Nil
Specific gravity	1.102 at 25 °C
Recommended dosage	Typical dosage rates of sikaGrind® -154 Activator are between 0.2-0.6 kg per ton of cement (0.02% -0.06% of total weight = cement + 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® -154 Activator must be accurately dispensed.
Compatibility	SikaGrind®-154 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.
Dispensing	Cements treated with SikaGrind® -154 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 by the use of SikaGrind® -154 Activator. Please consult our Technical Services Department.

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.

LIMITATIONS OF USE

Before pouring, suitability tests on the fresh concrete must be carried out. Due to the extended workability take special care that formwork is properly installed and secured. If frozen and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing. When using SikaGrind®-154 Activator a suitable concrete mix must be designed for the local material sources and should be trialed. When accidental overdosing occurs the set retarding effect and workability increases. Additional air may also be entrained. During this period the concrete must be kept moist in order to prevent premature drying out

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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