BUILDING TRUST

PRODUCT DATA SHEET

SikaGrind®-3251 Activator PK

Strength Enhancer And Grindıng Aid

DESCRIPTION

SikaGrind®-3251 Activator PK is a new generation strength enhancer and grinding aid for cement production completely chloride free. The use of this admixture allows to increase the strength of cement at all the seasoning. This new type of admixture was studied to face the increasing demanding needs due to the new European regulations on cement and to the new quality standards emerging from a more and more competitive market. SikaGrind®-3251 Activator PK is a product with a low dosage that allows to reduce considerably the costs of transport. This product is particularly suitable for cement type I or II to the limestone but is effective also on slag and fly ash cements. The constant increase of compressive strengths at early and long seasoning allows to reduce the clinker ratio in the cement, with a significant reduction of the production cost.

USES

SikaGrind®-3251 Activator PK is very effective on Portland cement type I and II A/LL with Limestone, Slag and Fly ash cements.

CHARACTERISTICS / ADVANTAGES

SikaGrind®-3251 Activator PKimproves the efficiency of grinding plants, working as a dispersing agent of electrostatic charges on cement grains that cause agglomeration and plugging. It improves furthermore the mechanical strength, working as a catalyst of cement hydration processes. It is possible to obtain:

- Higher mechanical strengths particularly at early and late seasoning.
- Lower cement production cost, thanks to clinker savings.
- The increase of the whole range of mechanical strength allows to achieve a lower Blaine Specific Surface (SSB), keeping constant the cement properties.
- Higher efficiency of the grinding system and cost saving as kWh/ton.
- Higher flowability in mortar and concrete

PRODUCT INFORMATION

Packaging	1000 ltr IBC Bulk supply in tanker is possible on demand
Appearance / Colour	Brown Liquid
Shelf Life	12 months 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.
pH-Value	≥ 9
Specific gravity	1.08 ± 0.02

APPLICATION INFORMATION

Recommended Dosage	The recommended dosing range is between 0.03% e 0,09% on the cement weight. Is recommended specially the preliminary execution of lab tests and industrial test in order to determine the optimal dosage of the product.
Compatibility	Cements treated with SikaGrind®-3251 Activator PK are compatible with all commercial concrete admixtures like air entrainers, water reducers, retarders, and superplasticizers. The performance of concrete admixtures is not adversely affected by the use of SikaGrind®-3251 Activator PK

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.

USES

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®-3251 Activator PK 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.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safety handling, storage and disposal of chemical products, user should refer to 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 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.

Sika Pakistan (Pvt.) Limited
141-CCA Phase IV, DHA
Lahore Punjab 54792
Pakistan
phone: +92 42 3569 4266 - 67
fax: +92 42 3569 4268
http://pak.sika.com/

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