BUILDING TRUST

PRODUCT DATA SHEET

SikaGrind®-709 Activator BD

EFFICIENT GRINDING AID FOR STRENGTH ENHANCEMENT

DESCRIPTION

SikaGrind®-709 Activator BD is liquid cement grinding aid with performance enhancing properties. SikaGrind®-709 Activator BD has been specifically designed to improve the strength development for cements with high amount of clinker replacements.

USES

Increase the grindability and ultimate strength of the cement with high amount of clinker replacements

FEATURES

SikaGrind®-709 Activator BD is a dispersant with the following characteristics:
- Neutralisation of electrical charges on the surface of the cement particles
- Separation of the cement particles

SikaGrind®-709 Activator BD provides the following advantages in the cement production:
- Enhanced grinding properties of the cement mill due to less accumulation of material on grinding balls and mill-liners.
- Higher separator efficiency due to improved cement particle dispersion.
- Reduced relative power consumption per ton of cement due to increased output of the grinding system (tons per hour).
- Easier achievement of the desired cement fineness (Blaine, particle fraction > 32µm, granulometry) due to reduced re-agglomeration of the sufficiently ground cement particles.
- Minimized problems with “plugging” due to improved powder flow characteristics.

SikaGrind®-709 Activator BD gives the following advantages to the finished cement:
- Reduced quantity of “over-milled” particles in the cement granulometry
- Easier discharge of the silos
- Increased strengths
- Economic cement design with clinker replacements

PRODUCT INFORMATION

Composition	Aqueous polymers solution	
Packaging	1000 Kg or bulk on request	
Appearance and colour	Brown liquid	
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging	
Storage conditions	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.	
Density	1.06 ± 0.02 kg/l at 25°C	(EN 934-2)
pH-Value	≥ 6	

APPLICATION INFORMATION

Recommended dosage	Typical dosage rates of SikaGrind®-709 Activator BD are between 0.3-0.6 kg per tonne of cement. The optimum dosage to achieve the desired characteristics shall be determined in Plant trials. Influencing factors are e.g. the properties of clinker source, type of cement and other plant variables. For consistent results, SSikaGrind®-709 Activator BD must be accurately dispensed
Compatibility	Cements treated with SikaGrind®-709 Activator BD 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®-709 Activator BD.

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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

DISPENSING

SikaGrind®-709 Activator BD is added onto the clinker feed shortly before the mill entrance or directly into the grinding mill (first or second compartment). Suitable dosage pumps with adjustable flow rates shall be used for accurate dosing.
Note:
Periodically, the end of the additive tube/hose shall be checked to ensure that it is not blocked.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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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