

PRODUCT DATA SHEET

SikaGrind®-747 CFE

STRENGTH ENHANCER AND GRINDING AID

DESCRIPTION

SikaGrind®-747 CFE 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 and allow to increase effective the flowability of the cement paste in mortar and concrete without any influence on the development of mechanical strengths at early seasonings. This product is particularly suitable for cement type I or II to the limestone, but is effective also on slag and fly ash cements. Is not recommended the use of this product on low heat of hydration cements without preliminary tests. 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®-747 CFE is very effective on portland cement type GP and all cement types with limestone, slag and fly ash, especially when high strength is required.

FEATURES

SikaGrind®-747 CFE improves 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 separator efficiency thanks to cement grains dispersion.
- Higher flowability in mortar and concrete

PRODUCT INFORMATION

Packaging	Bulk by tanker trucks, 1150 kg IBC container.
Appearance and colour	Brown Liquid
Shelf life	9 months.
Storage conditions	Store in the original sealed containers, protected from frost and direct exposure to sun at temperature ranging +5 to +35°C
Density	~1,160* kg/dm ³ a 20°C
pH-Value	~10,5

APPLICATION INFORMATION

Recommended dosage

The recommended dosing range is between 0.03% e 0,07% 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®-747 CFE 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®-747 CFE.

Dispensing

SikaGrind®-747 CFE should be accurately dosed through an accurate dosing system into the grinding mill or onto the clinker-feeding channel. Periodically you should check that the admixture line end is not plugged by cement. Sika Australia provide technical assistance to implement the optimized use of SikaGrind®-747 CFE, for both Laboratory and industrial trials.

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 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 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.

Sika Australia Pty Limited

ABN 12 001 342 329

aus.sika.com

Tel: 1300 22 33 48

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