

PRODUCT DATA SHEET

SikaGrind®-287 Activator MM

Grinding aid and quality improver for the production of cement

DESCRIPTION

SikaGrind®-287 Activator MM is a liquid additive to allow easier grinding and quality enhancement of all types of cement. SikaGrind®-287 Activator MM has been specifically developed to obtain cements with increased strengths.

USES

SikaGrind®-287 Activator MM is used in the grinding of cement as follows:

- Increase the production rate
- Improve the efficiency of the mill and separator
- Increase the compressive strength of cement particularly the late strength.

CHARACTERISTICS / ADVANTAGES

SikaGrind®-287 Activator MM is a very effective grinding aid with the following characteristics.

- Neutralisation of electrical charges on the surface of the cement particles
- Reduced agglomeration of ground cement particles (better dispersion)
- Less coating (accumulation of material) on grinding media and mill internals.

SikaGrind®-287 Activator MM provides the following advantages in the cement production.

- Higher mill output (tons per hour)
 - Higher separator efficiency
 - Easier achievement of the desired fineness (specific surface, sieve residue)
 - Cost savings due to a lower power consumption per ton
 - Easier handling and minimized problems with “plugging” due to improved flow characteristics
 - Improved self-levelling of the cement in the silo
- SikaGrind®-287 Activator MM gives the following advantages to the finished cement.
- Easier discharge of the silos
 - Optimum cement granulometry (reduced quantity of “over-milled” particles)
 - Increased compressive strength of cement at all ages
 - Allows economic cement design with clinker replacements

PRODUCT INFORMATION

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| Packaging | 1,000 kg IBC or 1000 Lit IBC or 200 Lit Drum |
| Shelf life | 12 months in undamaged, unopened and sealed original containers |
| Storage conditions | Store in dry conditions, protected from direct sunlight. Note: When delivered in bulk, the tanks and equipment used must be free from contaminants. |
| Density | 1.04 - 1.07kg/L (at +25°C) |
| pH-Value | 9.5 - 12.5 |

Recommended dosage

Typical dosage rates of SikaGrind®-287 Activator MM are between 0.1 – 0.4 kg per ton of cement (0.01% - 0.04% of total weight = cement clinker + 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®-287 Activator MM must be accurately dispensed.

Dispensing

SikaGrind®-287 Activator MM 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.

Compatibility

Cements treated with SikaGrind®-287 Activator MM are compatible with all commercial concrete admixtures including air entrainers, water reducers, retarders, and superplasticizers. The performance of concrete admixtures is not adversely affected by the use of SikaGrind®-287 Activator MM.

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.

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

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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