

## PRODUCT DATA SHEET

# SikaGrind®-170 MY

Grinding aid and quality improver

### DESCRIPTION

SikaGrind® 170 MY allows easier grinding of cement and enhances the quality of all types of cement. SikaGrind® 170 MY has been specifically developed to obtain cements with strongly increased early and final strengths

### USES

SikaGrind® 170 MY is used in the grinding of cement to:

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

### CHARACTERISTICS / ADVANTAGES

**SikaGrind® 170 MY is a effective dispersant with the following characteristics:**

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

**SikaGrind® 170 MY provides the following advantages in the cement production:**

- Higher efficiency of the plants (tons per hour) due to reduced grinding time per ton
- Higher separator efficiency due to improved dispersion
- Faster achievement of the desired cement fineness
- Reduced particle fraction > 32µ of the ground cement
- Reduced re-agglomeration of the cement particles
- Less accumulation of material on grinding equipment (grinding balls and mill)
- Cost savings due to a lower power consumption per ton

**SikaGrind® 170 MY gives the following advantages to the finished cement :**

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

### PRODUCT INFORMATION

Chemical Base	Blend of special organics
Packaging	1000 kg IBC
Appearance / Colour	Brown liquid
Shelf Life	At least 12 months in undamaged, unopened and sealed original containers
Storage Conditions	Store at temperature between +5°C and +35°C. Protect from frost, direct sunlight and contamination.

<b>Density</b>	1.155 +/- 0.02 kg/l (at +20°C)
<b>pH-Value</b>	10.5 +/- 2
<b>Recommended Dosage</b>	Typical dosage rates of SikaGrind® 170 MY are between: <b>0.2 – 1.0 kg per tonne of cement.</b> <b>(0.02% - 0.1% of total weight = cement clinker + additions).</b> 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® 170 MY must be accurately dispensed.
<b>Compatibility</b>	Cements treated with SikaGrind® 170 MY are compatible in concretes produced with all commercial admixtures including air entrainers, water reducers, retarders and superplasticizers. The performance of concrete admixtures are not adversely affected by the use of SikaGrind® 170 MY.
<b>Dispensing</b>	SikaGrind® 170 MY 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.

## 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

### 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

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