

# PRODUCT DATA SHEET

## SikaGrind®-703 VN

### EFFICIENT GRINDING AID AND PERFORMANCE ENHANCER FOR THE CEMENT

#### DESCRIPTION

SikaGrind®-703 VN is a chloride-free liquid cement grinding aid with performance enhancing properties. SikaGrind®-703 VN has been specifically designed to increase the output of cement grinding plants and obtain improved strength development for cements with high amount of clinker replacements

#### USES

- Improve the production rate of the cement grinding system
- Increase the early and ultimate strengths of the cement

#### CHARACTERISTICS / ADVANTAGES

SikaGrind®-703 VN is a dispersant with the following characteristics:

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

SikaGrind®-703 VN 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®-703 VN 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
  - Improved slump retention of concrete

#### PRODUCT INFORMATION

<b>Chemical base</b>	Aqueous polymers solution
<b>Packaging</b>	1000 kg IBC Bulk deliveries
<b>Appearance / Colour</b>	Brown liquid
<b>Shelf life</b>	12 months if stored properly in original unopened packaging
<b>Storage conditions</b>	Stored in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +35 °C Note: When delivered in bulk, the tanks and equipment used must be free from contaminants.
<b>Density</b>	1.070 – 1.130 kg/L (at 20 °C)
<b>pH-Value</b>	7.5 – 9.5 (at 25 °C)

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	Typical dosage rates of SikaGrind®-703 VN are between 0.2–0.7 kg per ton of cement (0.02 %–0.07 % of total weight = cement clinker + additions). 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.
<b>Compatibility</b>	Cements treated with SikaGrind®-703 VN are compatible in concretes produced with all commercial admixtures including air entraining agent, water reducers, retarders and superplasticizers. The performance of concrete admixtures is not adversely affected by the use of SikaGrind®-703 VN
<b>DISPENSING</b>	SikaGrind®-703 VN 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.

## 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.

## 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

## ECOLOGY, HEALTH AND SAFETY

**Protective Measures:** Avoid prolonged contact with skin. Wash off thoroughly with soap water. In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay. Avoid contact with food stuff and utensils

**Ecology/ Waste disposal:** Do not dispose of into water or soil, but according to local regulations

**Transportation class:** Non-hazardous

**Toxicity:** Non-toxic

## 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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