

## PRODUCT DATA SHEET

# SikaGrind®-1 SC VN

### GRANULATED BLAST-FURNACE SLAG GRINDING AID.

#### DESCRIPTION

SikaGrind®-1 SC VN is a liquid grinding aid to allow easier grinding of slag and other hydraulic cementing materials, and to enhance the quality of all types of slag. It has been specifically designed to obtain improved early strength development for slag cement with high amount of clinker replacements.

#### USES

SikaGrind®-1 SC VN is suitable for ball mill system and vertical mill system. It is especially recommended to the grinding of the following materials:

- granulated blast-furnace slag.

#### CHARACTERISTICS / ADVANTAGES

SikaGrind®-1 SC VN provides the following advantages in the slag production:

- Enhanced grinding properties of the slag mill due to less accumulation of material on grinding balls and mill-liners, "Wedge function" keep the microfractures of the slag particles open, and accelerate the particle cracking.
- Reduced re-agglomeration of the sufficiently ground slag particles.
- Optimize slag particle distribution, reduce particle fraction >32 µm of the ground slag.
- Reduced relative power consumption per ton of slag due to increased output of the grinding system (tons per hour).

#### PRODUCT INFORMATION

<b>Chemical base</b>	Alcohol Amine solution.
<b>Packaging</b>	1000 kg IBC. Bulk deliveries.
<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>Appearance / Colour</b>	Liquid/ Light yellow.
<b>Density</b>	1.02 – 1.08 kg/L ((20 °C).

#### APPLICATION INFORMATION

<b>Recommended Dosage</b>	Typical dosage rates of SikaGrind®-1 SC VN are between 0.6–1.2 kg per tonne of slag (0.06 %–0.12 % of slag). The optimum dosage to achieve the desired characteristics shall be determined in Plant trials. Influencing factors are e.g. the properties of slag source, type of slag and other plant variables. For consistent results, SikaGrind®-1 SC VN must be accurately dispensed.
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## Compatibility

Slags treated with SikaGrind®-1 SC VN are compatible in concrete 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®-1 SC VN.

## 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®-1 SC VN is added onto the slag feed shortly on conveyor belt 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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