

PRODUCT DATA SHEET

SikaFume[®]-300

SILICA FUME IN POWDERFORM AS AN INORGANIC CONCRETE ADDITIVE



DESCRIPTION

SikaFume[®]-300 is a fine, pozzolana additive for the production of high-strength, dense and durable concrete according to DIN 1045.

USES

- For Concrete and Mortar with high-strength, durability and high impermeability to water and chemicals
- In the production of high-performance sprayed concrete with increased demands

FEATURES

- Increases the compressive-strength
- Improving the binding between cement paste matrix and aggregate grains
- Reduction of porosity through reaction with cement constituents
- Improved stability and rheology
- Higher abrasion resistance
- Reduces rebound in shotcrete
- Reduction of efflorescence
- Increases the resistance to freezing/thawing and de-icing salts
- Improvement of the chemical resistance

CERTIFICATES AND TEST REPORTS

Complies with DIN EN 13263-1, Class 1.
Declaration of performance No. 47236876

PRODUCT INFORMATION

Composition	Amorphous silica SiO ₂ : > 90 %
Packaging	Bag 12.5 kg, 750 kg shrink-wrapped on Euro deposit pallet; 900 kg BigBag
Appearance and colour	Powder / Grey
Shelf life	Minimum of 1 year shelf life in sealed containers.
Storage conditions	Store dry like cement.
Density	2,2 g/cm ³ Specific surface (BET): approx. 20 m ² /g
Bulk density	bulk: approx. 0.50 g/cm ³

APPLICATION INFORMATION

Recommended dosage	max. 11 % of cement weight Initial testing according to DIN EN 206-1/DIN 1045-2 is required.
Dispensing	SikaFume®-300 must be simultaneously added with the cement. To reduce the increased water demand, utilise Sika ViscoCrete. The required mixing time after the addition is dependent on the mixer and must be sufficiently dimensioned.

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

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.

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 the 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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