

PRODUCT DATA SHEET

SikaFume®

Concrete additive

DESCRIPTION

SikaFume® additive for concrete in powder form, based on the Sika silica fume technology. Complies with ASTM C 1240

USES

SikaFume® is used in structural concrete, precast concrete, where extra demands are made on the quality of fresh and hardened concrete.

CHARACTERISTICS / ADVANTAGES

When used together with a Sikament®, Sikaplast®, Sika® Viscocrete®, superplasticizer, the concrete will show the following properties:

- Excellent workability
- Increased durability
- High early strengths
- Increased ultimate strengths
- Increased resistance to abrasion
- Increased sulfate resistance
- Greatly increased impermeability
- Greatly increased resistance to gas permeability
- Highly reduced chloride diffusion

PRODUCT INFORMATION

Chemical base	Silica fume
Packaging	900 kg big bag
Appearance / Colour	Powder / Grey
Shelf life	Min. 24 months if stored properly in original unopened packaging
Storage conditions	Dry, cool, shaded place
Density	Approx. 2.15 kg/l
Bulk Density	0.60–0.80 kg/l

TECHNICAL INFORMATION

Concrete Mixing Time	SikaFume® is added with the cement to the concrete at the batching plant before the gauging water. Optimum mixing time: 90 seconds. The quantity of water should be adjusted to suit the dosage of Sikament®, Sikaplast®, Sika®Viscocrete® and final consistency of concrete required.
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APPLICATION INFORMATION

Recommended Dosage

5–10 % by weight of cement. For optimum results in concrete, always use in conjunction with a superplasticiser from the Sikament®, Sikaplast®, Sika® Viscocrete® range

IMPORTANT CONSIDERATION

Concrete using SikaFume® should be handled and placed in the same way as conventional mixes. Standard good concreting practice should be observed throughout, and proper curing procedures should be initiated immediately after concrete placement. Please consult Technical department for advice.

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 Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

Ecology: Do not dispose into water

Transportation class: Non-hazardous

Waste disposal: According to local law

Important notes: Dust mask, suitable protective clothing, gloves and eye shields should be worn during working with this product especially when there is heavy dust formation. Accidental splashes to the eyes and mucous membrane must be washed off with clean water. Seek medical attention if necessary.

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.

Sika Limited (Vietnam)

Nhon Trach 1 Industrial Zone,
Nhon Trach Dist., Dong Nai Province,
Vietnam

Tel: (84-251) 3560 700

Fax: (84-251) 3560 699

sikavietnam@vn.sika.com



Product Data Sheet

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August 2020, Version 01.02

02140303100000019

SikaFume-en-VN-(08-2020)-1-2.pdf