

PRODUCT DATA SHEET

SikaFume®-100 P

Silica Fume Powder for High Performance Concrete

PRODUCT DESCRIPTION

SikaFume®-100 P is a modified concrete additive in powder form based on Sika® silica fume / microsilica technology. It is a formulated blend of highly reactive pozzolanic materials and stabilisers designed to produce high quality concrete. SikaFume®-100 P is particularly suitable for chemical resistance, exposure to aggressive atmospheres, abrasion and high strength mixes. It should always be used in conjunction with a superplasticiser from the Sika range, or equivalent, subject to trials.

USES

Typical applications include:

- Concrete subject to heavy traffic or wear and tear
- Concrete in aggressive chemical environments
- Sprayed concrete
- Concrete exposed to air pollution (urban and industrial areas)

CHARACTERISTICS / ADVANTAGES

SikaFume®-100 P improves properties of the fresh concrete, such as cohesion, bond and water efficiency. In hardened concrete the highly active pozzolanic material react with the free lime produced by the hydration of the cement to improve the strength, density and durability of the concrete. SikaFume®-100 P enhances the following characteristics:

- Cohesion
- Early and final strength
- Impermeability to liquids and gases
- Chloride, sulfate and acid resistance
- Resistance to alkali-silica reaction in aggregates
- Resistance to freeze/thaw cycles and abrasion

APPROVALS / STANDARDS

SikaFume®-100 P conforms to the requirements of BS EN 13263-1:2005+A1:2009, Silica fume for concrete Class 1.

DoP 37206622, certified by Factory Production Control Body 2477 and provided with the CE mark.

PRODUCT INFORMATION

Packaging	10 kg soluble bags
Colour	Colour may vary
Appearance / Colour	Grey powder
Shelf Life	6 months from date of manufacture, when stored correctly in its original packaging.
Storage Conditions	SikaFume®-100 P should be stored indoors and protected from heat and moisture.
Density	480-700 kg/m ³
Total Chloride Ion Content	<0.10 % w/w (chloride free)
Equivalent Sodium Oxide	<0.60 % w/w (alkali content)

TECHNICAL INFORMATION

Concreting guidance	Concrete with SikaFume®-100 P will be subject to reduced bleed. As such, proper curing is essential with a product such as Sika® Antisol®.
Concrete Mixing Time	SikaFume®-100 P may require additional mixing time depending upon the efficiency of the mixer used.

APPLICATION INFORMATION

Recommended Dosage	Typical dosage 2.5-10 % by weight of binder. Contact Sika technical services for detailed advice on the dosage requirements.
Compatibility	SikaFume®-100 P is compatible with other Sika admixtures or equivalent and trials are recommended to ascertain optimum dosage. Please contact Sika technical services for more information.
Dispensing	SikaFume®-100 P should be added including the soluble packaging directly into the mixer and mixed until thoroughly distributed and lump-free.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

Actual colour of product may vary, but this will not affect mechanical performance.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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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