

PRODUCT DATA SHEET

SikaFume®-001 PH

ADDITIVE FOR DURABLE AND HIGH ULTIMATE STRENGTH CONCRETE

DESCRIPTION

SikaFume®-001 PH is a new generation concrete additive in loosely agglomerated particles form based on silica fume technology. It is highly effective additive for the production of high performance concrete.

USES

SikaFume®-001 PH is used in shotcrete, structural concrete, precast concrete and other fields of concrete construction where high demands are imposed on the quality of fresh and hardened concrete.

CHARACTERISTICS / ADVANTAGES

SikaFume®-001 PH contains extremely fine latently reactive silicic dioxide. The presence of this substance imparts greatly improved internal cohesion and water retention in the fresh concrete. The concrete becomes extremely pliable and pumpability is substantially improved. In the hardened concrete the latently reactive silica fume forms a chemical bond with the free lime (CaOH₂). The additional formation of hydration products results in a significantly denser cement matrix.

With the use of SikaFume®-001 PH the concrete will show the following properties:

- High stability of green concrete
- Highly increased durability
- Excellent frost and de-icing salt resistance if an air entraining agent is used at the same time
- Increased ultimate strengths
- Increased abrasion resistance
- Increased water tightness
- Increased gas tightness
- Reduced chloride penetration

SikaFume®-001 PH does not contain any chlorides or other steel corrosion promoting substances, and can therefore be used without any restriction for reinforced and prestressed concrete construction.

PRODUCT INFORMATION

Chemical Base	Agglomerated particles
Packaging	10 kg/bag
Shelf Life	36 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage Conditions	Storage in a dry environment.
Total Chloride Ion Content	< 0.3%

TECHNICAL INFORMATION

Concreting Guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.
Concrete Mix Design	When using SikaFume®-001 PH a suitable mix design has to be taken into account and local material sources shall be tested.
Concrete Mixing Time	SikaFume®-001 PH is added with the cement and aggregates at the batching plant before the gauging water. Optimum wet mixing time: 60 seconds.

APPLICATION INFORMATION

Recommended Dosage	5 - 15 % by weight of total cementitious binder.
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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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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