

PRODUCT DATA SHEET

Sikacrete® PP1

CONCRETE ADMIXTURE

DESCRIPTION

Sikacrete® PP1 is a concrete admixture of the new generation in powder form, based on the Sika silica fume technology. Complies with ASTM C 1240.

USES

Sikacrete® PP1 is used in structural concrete, precast concrete, and other fields of concrete construction where extra demands are made on the quality of fresh and hardened concrete.

CHARACTERISTICS / ADVANTAGES

Sikacrete® PP1 contains extremely fine (particle size < 0.1mm) latently reactive silicon dioxide.

The presence of this substance greatly improves internal cohesion and water retentivity. The concrete becomes extremely cohesive and the pumping properties are substantially improved. In the hardened concrete the latently reactive silica fume forms a chemical bond with the free lime.

When used together with a Sikament 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

Sikacrete® PP1 contains no chlorides or other potentially corrosive substances.

PRODUCT INFORMATION

Chemical base	Precision monitored pozzolanic silica fume
Packaging	20 kg bag
Appearance / Colour	Powder / Grey
Shelf life	Min. 24 months if stored properly in original unopened packaging.
Storage conditions	Dry, cool, shaded place
Bulk Density	0.50 – 0.70 kg/l
Specific Gravity	Approx. 2.15
Total Chloride Ion Content	Nil

TECHNICAL INFORMATION

Specific Advice	Sikacrete® PP-1 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 Sikacrete® PP1, Sikament 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 and Viscocrete ranges.

IMPORTANT CONSIDERATION

- Concrete using Sikacrete® PP1 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.
- Curing treatment - use of Sika curing compounds to cure concrete is advisable.

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 eyeshields 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.

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