

PRODUCT DATA SHEET

Sikament® 100P

HIGH RANGE WATER REDUCER IN POWDER FORM

DESCRIPTION

A highly effective dual action super plasticizer for the production of free flowing concrete or as a substantial water-reducing agent for promoting high early and ultimate strengths.

USES

Sikament® 100P is used as a superplasticizer in the production of high early strength concrete especially in :

- Spun pile production
- Girders
- Pre-stressed concrete structures that require early pre-stressed cable tensioning
- Areas of concrete where formwork must be removed quickly or early load will be applied

CHARACTERISTICS / ADVANTAGES

Sikament® 100P provides the following properties :
As a Super plasticizer :

- Workability is greatly improved. Increased placeability in slender components with packed reinforcement.
- Decreases the amount of vibration required. Normal set without retardation.
- Significantly reduces risk of segregation.

PRODUCT INFORMATION

Chemical Base	Sodium Salt of Poly-Naphthalene Sulfonic Acid
Packaging	10 kg bag (20 x 500 gr)
Appearance / Colour	Powder / Brown
Shelf Life	Minimum 2 year if stored in well ventilated and dry area
Storage Conditions	Store in dry, cool, and shaded place
pH-Value	7.0 – 9.0
Solid Content	≥ 92.00 %
Bulk Density	0.7 ± 0.1

APPLICATION INFORMATION

Recommended Dosage

Sikament® 100P can be used at the dose rate 0.30 % - 0.80 % by total weight of cementitious material depending on requirements concerning workability and strength. It is recommended that trial mixes be conducted to determine the exact dosage rate required.

For more specific requirements, advice is available from our Technical Service Department to determine the usage rate for optimum results.

Compatibility

Sikament® 100P may be combined with the following products:

- Plastocrete series
- Plastiment series
- Sika Pump
- SikaFume
- Sika AER

Pre-trials are recommended if combinations with the above products are required.

Please consult our Technical Service Department.

APPLICATION INSTRUCTIONS

DISPENSING

Sikament® 100P can be added directly to the concrete mixture in powder form.

In case Sikament® 100P is used in liquid form then it should be dispensed to the mixing water prior to its addition to the aggregates or as in most cases, it can be added directly to the freshly mixed concrete.

When added directly to the freshly mixed concrete, the plasticizing effect is more pronounced.

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 and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

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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.

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.