

Sikament P

High Range Water-Reducer and Slump Retention Concrete Admixture

Construction

Product Description **Sikament P** is a chloride free, extremely effective dual action liquid superplasticizer for the production of free flowing concrete or as an high range water-reducing agent for promoting high early strengths. It imparts excellent slump retention for prolonged periods even at low water cement ratio.

Sikament P is suitable for tropical and hot climatic conditions and it is exceptionally powerful in concrete mixes with high fines content.

Uses **Sikament P** is used as a superplasticizer in the production of free flowing concrete such as

- Slabs and foundations
- Walls, columns and piers
- Slender components with densely packed reinforcement
- Piles

It is also used as a water-reducing agent leading to high early strength concrete such as

- Pre-cast concrete elements
- Pre-stressed concrete
- Bridges and cantilever structures

Advantages **Sikament P** provides the following properties:

As a Superplasticizer

Workability is greatly improved. Concrete is placed easily, especially suitable for slender components with densely packed reinforcement. Concrete requires less vibrating. Improved cohesion of the concrete mix significantly reduces the

As a Water Reducer

Up to 30% water reduction. Final strength improved up to 150%.

Test Standards **Sikament P** complies with ASTM C494 Type G and EN 934-2

Product Data

Type Selected synthetic and organic based polymers.

Form Brown liquid

Packaging 250 Kg drums and 1000 Kg flow bins
Bulk supply in tanker trucks possible on demand

Storage condition Store in a close container in a dry area between 10°C and 35°C. Protect from direct sunlight

Shelf life 12 months minimum from date of production if stored properly in original unopened packaging

Technical Data

Density at 25°C Approximately 1.2 kg/it ± 0.01kg/it

Chloride content Nil (EN 934-2)



Application Details

Dosage	For normal concrete a dosage between 0.8 - 1.50 % by weight of cement may be used, and for high strength concrete, dosage between 1.5 to 2.5% by weight of cement may be used. It is advisable to carry out trial mixes to establish the correct dosage.
Dispensing	Sikament P can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced). The correct quantity of Sikament P should be measured by means of a recommended dispenser.
Curing	Fresh concrete must be cured properly, especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika Antisol products as a curing agent or apply wet hessian.
Compatibility	Sikament P can be combined with Sika Aer. It is also compatible with sulfonate resistant cement.
Cleaning	Clean all equipment and tools with water immediately after use.
Remarks	When accidental overdosing occurs, the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.

Safety

Precautions	Accidental splashes to the skin must be washed off with water and soap. Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention without delay. Skin barrier cream, safety goggles and rubber gloves are recommended.
Ecology	Do not dispose of into water or soil but according to local regulations.
Toxicity	Non-toxic under the relevant Swiss health and safety codes.
Transportation	Non-hazardous.

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 practice, the differences in materials, substratum 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request



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