

## Sikament® P-S

High Range Water-Reducer and Slump Retention Concrete Admixture, very efficient for hot weather concrete.

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### Product Description

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

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### Uses

Sikament P-S 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

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### Advantages

Sikament P-S 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 risk of segregation and allows greater time for placement.

- As a Water Reducer:

Up to 30% water reduction.

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### Test Standards

Sikament P-S complies with ASTM C494 Type G and EN 934-2

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### Product Data

#### Colour & Type

Brown Liquid  
Selected synthetic and organic based polymers.

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### Storage

Stored in dry conditions at temperatures between +5 °C and +35 °C.  
Protect from direct sunlight  
Protect from frost.



**Shelf life** 12 months from date of production if stored properly in original unopened packing.

**Packaging** 250 Kg drums and 1200 Kg flow bins  
Bulk supply in tanker trucks possible on demand

## Technical Data

**Density** (at 20 °C) Approximately 1.185 kg/Lt ± 0.015kg/Lt

**Chloride content** Nil

## Notes on application

**Dosage** 0.6% - 2.5% by weight of cement.  
 ■ For normal concrete a dosage between 0.6 - 1.30 % by weight of cement may be used.  
 ■ For high strength concrete, dosage between 1.30 to 2.50 % by weight of cement may be used.  
 It is advisable to carry out trial mixes to establish the correct dosage.

**Dispensing** Sikament P-S 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-S 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-S can be combined with Sika Aer. It is also compatible with sulphate 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 instructions

**Safety precautions** Product may cause skin irritation. Wear gloves and goggles and apply barrier cream to hands. In contact with eyes or mucous membrane, flush immediately with plenty of warm water and seek medical attention without delay.

**Ecology** Do not dispose of into water or soil but according to local regulations.

**Transport** Non-hazardous.

**Toxicity** Non-toxic

## 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 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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