

## Sika ViscoCrete® -5930

### High Performance Superplasticiser Concrete Admixture

**Product Description** Sika ViscoCrete® -5930 is a third generation super plasticizer for concrete and mortar. It meets the requirements for super plasticizer according to ASTM-C- 494 Types G and F and BS EN 934 part 2: 2001.

**Uses** Sika ViscoCrete® -5930 is suitable for the production of concrete.  
Sika ViscoCrete® -5930 facilitates extreme water reduction, excellent flowability at the same time optimal cohesion and highest self compacting behaviour.

Sika ViscoCrete® -5930 is used for the following types of concrete:

- Precast concrete.
- Ready Mix Concretes.
- Concrete with highest water reduction (up to 30%).
- High strength concrete.
- Hot weather Concrete.
- Self compacting concretes.

High water reduction, excellent flowability, coupled with high early strengths, have a positive influence on the above mentioned applications.

**Advantages** Sika ViscoCrete® -5930 acts by different mechanisms. Through surfaces adsorption and sterical separation effect on the cement particles, In parallel to the hydration process, the following properties are obtained:

- Strong self compacting behaviour. Therefore suitable for the production of self compacting concrete.
- Extremely high water reduction (resulting in high density and strengths).
- Excellent flowability (resulting in highly reduced placing - and compacting efforts)
- Increase high early strengths development.
- Improved shrinkage- and creep behaviour.
- Reduced rate of carbonation of the concrete.
- Improved Water Impermeability.

Sika ViscoCrete® -5930 does not contain chloride or other, steel corrosion promoting ingredients, It may therefore be used without any restrictions for reinforced and prestressed concrete construction.

#### Technical Data

**Basis** Aqueous solution of modified polycarboxylate

**Appearance** Turbid liquid

**Density** 1.08 kg/lit. ± 0.02

**Packaging** 5 Kg, 20 Kg pails  
200 kg drums  
Bulk Tanks are available upon request.

**Storage/ Shelf Life** In unopened, undamaged original container, protected from direct sunlight and frost at temperatures between + 5 °C and + 35°C. Shelf life at least 12 months from date of production.



## Application

### Dosage

Recommended dosage:

- For soft plastic concrete: 0.2 - 0.8 % litre by weight of cement
- For flowing and self compacting concrete (S.C.C.) 0.8 - 2 % litre by weight of cement

### Addition

Sika ViscoCrete® -5930 is added to the gauging water or simultaneously with it poured into the concrete mixer. For optimum utilisation of the high water reduction we recommend through mixing at a minimal wet mixing time of 60 seconds.

The addition of the remaining gauging water - to fine tune concrete consistency - may only be started after 2/3 of wet mixing time, to avoid surplus water in the concrete.

### Concrete Placing

With the use of Sika ViscoCrete® -5930 concrete of highest quality is being produced. The standard rules of good concreting practice (production as well as placing) must also be observed with Sika ViscoCrete® -5930 concrete.

Fresh concrete must be cured properly.

### Frozen Sika ViscoCrete® -5930

Frozen Sika ViscoCrete® -5930 may be used after It has been slowly thawed at room temperature and intensively mixed.

### Combinations

Sika ViscoCrete® -5930 may be combined with the following Sika products:

- Sika Pump® .
- Sika Rapid® .
- Sika Ferrogard®-901.
- Sikafume®.
- Sika Fro® -V5A
- Sika Retarder®

Pre-trials are recommended if combinations with the above products are being made. Please consult our technical service.

### Important Flowing Concrete S.C.C

Sika ViscoCrete® -5930 is also used to produce flowing and self compacting concrete (S.C.C.) For these, special mix designs are required, contact our Technical Service division.

## Safety Instructions

### Ecology

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

### Transport

Non-hazardous.

### Safety Precautions

In contact with skin, wash off with soap & water. In contact with eyes or mucous membrane, rinse immediately with clean warm water and seek medical attention without delay.

### Toxicity

Non-Toxic under relevant health and safety codes.

## 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 products when properly stored, handled and applied under normal conditions. 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 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.

For further technical information, please consult our technical service department.



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