

Sika ViscoCrete® -5920

High Performance Superplasticiser Concrete Admixture

Product Description Sika ViscoCrete® -5920 is a third generation super plasticizer for concrete and mortar. It meets the requirements for super plasticizers according to ASTM-C- 494 Types G and F and BS EN 934 part 2: 2001.

Uses Sika ViscoCrete® -5920 facilitates extreme water reduction, excellent flowability with at the same time optimal cohesion and highest self compacting behaviour.

Sika ViscoCrete® -5920 is used for the following types of concrete:

- Precast Concrete
- Ready Mix Concrete
- Concrete with highest water reduction (Up to 30%).
- High Strength Concrete
- Hot Weather Concrete
- Self Compacting Concrete

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

Advantages Sika ViscoCrete® -5920 as a powerful superplasticiser acts by different mechanisms.

Through surface 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® -5920 does not contain chloride or other ingredients promoting corrosion of steel reinforcement. It is therefore suitable to be used without any restrictions for reinforced and prestressed concrete production.

Technical Data

Base	Aqueous solution of modified Polycarboxylates
Appearance / Colour	Light brownish liquid
Density	1.09 ± 0.01 kg/lit
Solid content	36%
Packaging	5 and 20 kg pails 220 kg drums Bulk Tanks packing available upon request

Storage / Shelf Life 12 months from date of production if stored properly in unopened and undamaged, original sealed packaging, in dry temperatures between +5°C and +35°C. Protected from direct sunlight and frost.



Application	
Dosage	<ul style="list-style-type: none"> ■ For flowing and self compacting concrete (S.C.C.): 0.5 – 2.0% litre by weight of cement depending on desired workability and strength. It is advisable to carry out trial mixes to establish the correct dosage rate required.
Dispensing	<p>Sika ViscoCrete® -5920 is added to the gauging water or added with it into the concrete mixer.</p> <p>To take advantage of the high water reduction, a wet mixing time of at least 60 seconds is recommended.</p> <p>To avoid excess water in the concrete, the final dosage must begin only after 2/3 of the wet mixing time.</p>
Concrete Placing	<p>The standard rules of good concreting practice, concerning production as well as placing, are to be followed.</p> <p>Fresh concrete must be cured properly and as early as possible.</p>
Compatibility	<p>Sika ViscoCrete® -5920 may be combined with the following Sika products:</p> <ul style="list-style-type: none"> ■ Sika Pump® ■ Sika Rapid® ■ Sika Ferrogard® -901 ■ Sikafume® ■ Sika Fro® -V5A ■ Sika Retarder® <p>Pre-trials are recommended if combinations with the above products are being made.</p>
Important Notes	<p>If frozen and/or if precipitation has occurred, Sika ViscoCrete® -5920 may be used after thawing slowly at room temperature and after intensive mixing.</p>
Safety Instructions	
Safety Precautions	<p>In contact with skin, wash off with soap and water.</p> <p>In contact with eyes or mucous membrane, rinse immediately with clean warm water and seek medical attention without delay.</p>
Ecology	<p>Residues of material must be removed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.</p>
Transport	<p>Non-hazardous</p>
Toxicity	<p>Non-Toxic under relevant health and safety codes.</p>
Legal notes	<p>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.</p>

