

PRODUCT DATA SHEET

Sika® ViscoCrete®-140 SK

High Range Water Reducing Admixture with workability retaining properties

DESCRIPTION

Sika® ViscoCrete®-140 SK is a high range water reducer based on Sika's 'ViscoCrete®' polycarboxylate polymer technology specifically formulated for extended slump life in high strength concrete mixes. Sika® ViscoCrete®-140 SK combines the benefits of a high range water reducer with a slump keeper to achieve extended slump life in flowable concrete mixes.

USES

Sika® ViscoCrete®-140 SK is designed for both High Performance Concrete and Self Compacting Concrete (SCC) with long transportation times and extended workability requirements, very high water reduction and excellent flow characteristics.

Sika® ViscoCrete®-140 SK can be combined with accelerating or retarding admixtures to achieve required compressive strengths and setting time.

CHARACTERISTICS / ADVANTAGES

Water Reduction: Sika® ViscoCrete®-140 SK can be dosed in small amounts to obtain water reduction from 10–15 %, and will achieve water reduction of over 30 % at high dosage rates.

High Plasticity and neutral set: The superplasticizing action of Sika® ViscoCrete®-140 SK provides high slump, flowing concrete that maintains excellent workability, and may be placed with minimal or no vibration even at very low water cement ratios. Sika® ViscoCrete®-140 SK is mainly used for the following applications:

- The production of High Performance Concrete in hot weather and with extended transportation and workability requirements.
 - Where high compressive strengths in early days for earlier removal of forms and structural use of concrete is required.
 - Self-Compacting Concrete and highly flowable mixes with ultimate strengths requirements (over 100 Mpa)
 - Concrete with reduced water cement ratios for more durable, dense concrete with reduced permeability.
 - Soft placing and compaction characteristics
 - High Strength Concrete pumped over long distances
- Sika® ViscoCrete®-140 SK has been formulated to provide great water reduction, increased slump retention and easier pumpability.

Sika® ViscoCrete®-140 SK does not contain calcium chloride or any other intentionally added chlorides, and will not initiate or promote the corrosion of the steel reinforcing bars.

APPROVALS / CERTIFICATES

It meets the requirements for high range water reducing admixtures (HWR) according to AS1478.1-2000.

PRODUCT INFORMATION

Composition

Aqueous solution of modified polymers

Packaging	Bulk deliveries 1000 litre IBC 205 litre drum 10 litre container
Shelf life	Shelf life when stored in dry warehouse conditions between 5 ° 35 °C is one year.
Storage conditions	Sika® ViscoCrete®-140 SK shall be stored at above 5 °C. If frozen, thaw and agitate thoroughly to return to normal state.
Appearance and colour	Clear light brown liquid
Specific gravity	Approx. 1.08 g/cm ³

APPLICATION INFORMATION

Recommended dosage	Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project. Sika recommends dosage at 500–1000 ml/100 kg of cementitious for general concrete applications. In high strength and highly flowable concrete mixes the typical dosage ranges between 800 ml and 2000 ml/100kg of cementitious materials. Dosage rates outside the recommended range may be used where specialized materials such as microsilica are specified, extreme ambient conditions are encountered or unusual project conditions require special consideration. Please contact your Sika representative for more information and assistance.
Dispensing	Dry batching plant: Load all the components with 80% of the mixing water and Sika® ViscoCrete®-140 SK, mix thoroughly for a minimum time of 60 seconds per cubic meter. Add the remaining 20% of batching water then. Wet batching plant: Sika® ViscoCrete®-140 SK may also be dispensed as an integral material during the regular admixture batching cycle of the concrete mixer.

Compatibility

Combination with other admixtures: Sika® ViscoCrete®-140 SK is highly effective as a single admixture or in combination with other admixtures in the Sika System, with the exclusion of Sikament NN. Please contact a Sika representative for further information.

Combination with SikaFume® : Sika® ViscoCrete®-140 SK is particularly well suited for use with SikaFume® because of its water reduction and slump retention capabilities.

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.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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.

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