

PRODUCT DATA SHEET

Sika® ViscoCrete®-5930

HIGH RANGE WATER REDUCING ADMIXTURE

PRODUCT DESCRIPTION

Sika® ViscoCrete®-5930 is a high range water reducing and superplasticizing admixture utilizing Sika's 'ViscoCrete®' polycarboxylate polymer technology.

USES

Sika® ViscoCrete®-5930 is used in ready mix added as high range water reducer to provide excellent plasticity while maintaining slump. Controlled set times make Sika® ViscoCrete®-5930 ideal for horizontal and vertical applications, Sika® ViscoCrete®-5930 is ideal for production of Self Consolidating Concrete (SCC).

CHARACTERISTICS / ADVANTAGES

Water Reduction: Sika® ViscoCrete®-5930 can be dosed in small amounts to obtain water reduction from 10-15%, and will achieve water reduction up to 45% at high dosage rates. Sika® ViscoCrete®-5930 is suitable for all levels of water reduction.

High Plasticity: The superplasticizing action of Sika® ViscoCrete®-5930 provides high slump, flowing concrete that maintains excellent workability and may be placed with minimal vibration even at very low water cement ratio's as low as 0.25. Sika® ViscoCrete®-5930 plasticized concrete is highly fluid while maintaining complete cohesion within the concrete matrix to eliminate excessive bleeding or segregation.

The combined high range water reduction and superplasticizing action of Sika® ViscoCrete®-2100 provide the following benefits in hardened concrete:

- Higher ultimate strengths allow for greater engineering design flexibility and structural economies.
- Reduced water cement ratios produce more durable, dense concrete with reduced permeability.
- Highly effective plasticizer reduces surface defects in concrete elements and improves aesthetic appearance.
- It has been formulated to provide maximum water reduction and extended slump retention at low dosages. Sika® ViscoCrete®-5930 is a non-chloride based admixture, it does not contain any intentionally added chlorides.

PRODUCT INFORMATION

Packaging	Sika® ViscoCrete®-5930 is available in bulk delivery.
Appearance / Color	Light yellowish liquid
Shelf Life	Shelf life when stored in dry warehouse conditions between (10 – 25) °C is one year.
Storage Conditions	Sika® ViscoCrete®-5930 If frozen, thaw and agitate thoroughly to return to normal state.
Specific Gravity	Approx. 1.08 ± 0.015 kg/lit

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 0.2 - 0.8 % of cementitious materials for conventional concrete applications. If high slump or Self Consolidating Concrete (SCC) is required, typically dosage from 0.8 - 2 % of cementitious materials may be used.

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. In this case, please contact your local regional Sika representative or Sika Technical Service Department for more information and assistance.

Mixing

For best superplasticizing results, add Sika® ViscoCrete®-5930 directly to freshly mixed concrete in the concrete mixer at the end of the batching cycle. Sika® ViscoCrete®-5930 may also be dispensed as an integral material during the regular admixture batching cycle. To optimize the superplasticizing effect, after the addition Sika® ViscoCrete®-5930, Sika recommends that the combined materials be mixed for 80-100 revolutions, either in the concrete mixer or in the Ready-Mix truck.

Combination with Other Admixtures: Sika® ViscoCrete®-5930 is highly effective as single admixture or in combination with other admixtures in the Sika System. If used in combination with certain Sikament® high range water reducers it may affect the plastic properties of fresh concrete. Please contact a Sika representative for further information.

Combination with Microsilica: Sika® ViscoCrete®-5930 is particularly well suited for use with microsilica because of its water reduction capability and superior slump control.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC

Sika Near East s.a.l.
Secteur 5, Rue 70
Jisr el-Bacha, Sin el-Fil
Beirut-Lebanon
Tel: +961 1 510270
lbn.sika.com

LEGAL DISCLAIMER

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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