

Sika® ViscoCrete® 2100

High Range Water Reducing Admixture

Description	<p>Sika ViscoCrete 2100 is a high range water reducing and superplasticizing admixture utilizing Sika's 'ViscoCrete' polycarboxylate polymer technology.</p> <p>Sika ViscoCrete 2100 meets the requirements for ASTM C-494 Types A and F.</p>
Applications	<p>Sika ViscoCrete 2100 may be used in both ready mix and precast applications, as a plant added high range water reducer to provide excellent plasticity while maintaining slump for up to 90 minutes. Controlled set times make Sika ViscoCrete 2100 ideal for horizontal and vertical applications.</p> <p>Sika ViscoCrete 2100 is ideal for production of Self Consolidating Concrete (SCC).</p>
Advantages	<p>Water Reduction: Sika ViscoCrete 2100 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.</p> <p>Sika ViscoCrete 2100 is suitable for all levels of water reduction.</p> <p>High Plasticity: The superplasticizing action of Sika ViscoCrete 2100 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 2100 plasticized concrete is highly fluid while maintaining complete cohesion within the concrete matrix to eliminate excessive bleeding or segregation.</p> <p>Extended Slump Life and Set Control: Sika ViscoCrete 2100 has been formulated to provide controlled and predictable extended slump life for periods of 60 to 90 minutes with normal set times.</p> <p>The combined high range water reduction and superplasticizing action of Sika ViscoCrete 2100 provide the following benefits in hardened concrete:</p> <ul style="list-style-type: none">■ 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. <p>It has been formulated to provide maximum water reduction and extended slump retention at low dosages.</p>
How to Use	
Dosage	<p>Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project. Sika recommends dosage at 2-6 fl. oz. per 100 lbs. (130-390 ml/100 kg) of cementitious for conventional concrete applications. If high slump or Self Consolidating Concrete (SCC) is required, dosage from 6-12 fl.oz./100 lbs. (390-780 ml/100 kg.) of cementitious may be used.</p> <p>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 thi case, Please contact your local regional Sika office or Sika Technical Service Department 1-800- 933-7452 for more information and assistance.</p>

Construction

**Sika®**

Mixing

For best superplasticizing results, add Sika ViscoCrete 2100 directly to freshly mixed concrete in the concrete mixer at the end of the batching cycle.

Sika ViscoCrete 2100 may also be dispensed as an integral material during the regular admixture batching cycle or into freshly mixed concrete in a Ready-Mix truck at the concrete plant.

To optimize the superplasticizing effect, after the addition Sika ViscoCrete 2100 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 2100 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 2100 is particularly well suited for use with microsilica because of its water reduction capability and superior slump control.

Packaging

Sika ViscoCrete 2100 is available in 55 gallon drum (208 liter), 275 gallon totes (1040 liters) drums and bulk delivery.

Storage and Shelf-life

Sika ViscoCrete 2100 should be stored at above 35°F (2°C). If frozen, thaw and agitate thoroughly to return to normal state.

Shelf life when stored in dry warehouse conditions between 50°F and 80°F (10°C - 27°C) is one year.

Typical Data

Appearance

Light Blue liquid.

Specific Gravity

Approx. 1.1

CAUTION: IRRITANT

Contains aqueous polymer solution (CAS: Mixture). May cause eye/skin/respiratory irritation. May be harmful if swallowed.

Handling and Storage

Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Wash thoroughly with soap and water after use. Remove contaminated clothing and laundry before reuse.

First Aid

Eyes: Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin:** Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation:** Remove person to fresh air. **Ingestion:** Do not induce vomiting. Dilute with water. Contact physician. **In all cases contact a physician immediately if symptoms persist.**

Clean Up

Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.

KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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South East Region: Conyers, GA, Phone: (770) 760-1300

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Western Region: Santa Fe Springs, CA, Phone: (562) 903-3650

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Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408

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