



## Sika® ViscoCrete® 2100

### High Range Water Reducing Admixture



Construction

<b>Description</b>	Sika ViscoCrete 2100 is a high range water reducing and superplasticizing admixture utilizing Sika's 'ViscoCrete' polycarboxylate polymer technology.
<b>Applications</b>	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. Sika ViscoCrete 2100 is ideal for production of Self Consolidating Concrete (SCC).
<b>Advantages</b>	<p><b>Water Reduction:</b> 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. Sika ViscoCrete 2100 is suitable for all levels of water reduction.</p> <p><b>High Plasticity:</b> 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.</p> <p><b>Sika ViscoCrete 2100 plasticized concrete</b> is highly fluid while maintaining complete cohesion within the concrete matrix to eliminate excessive bleeding or segregation.</p> <p><b>Extended Slump Life and Set Control:</b> 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"><li>■ Higher ultimate strengths allow for greater engineering design flexibility and structural economies.</li><li>■ Reduced water cement ratios produce more durable, dense concrete with reduced permeability.</li><li>■ Highly effective plasticizer reduces surface defects in concrete elements and improves aesthetic appearance.</li></ul> <p>It has been formulated to provide maximum water reduction and extended slump retention at low dosages.</p>
<b>How to Use</b>	
<b>Dosage</b>	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. 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.
<b>Packaging</b>	Sika ViscoCrete 2100 is available in 55 gallon drum (208 liter), 275 gallon totes (1040 liters) drums and bulk delivery.
<b>Storage and Shelf-life</b>	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

<b>Appearance</b>	Light Blue liquid.
<b>Specific Gravity</b>	Approx. 1.1
<b>Caution: IRRITANT</b>	Contains aqueous polymer solution (CAS: Mixture). May cause eye/skin/respiratory irritation. May be harmful if swallowed.
<b>Handling and Storage</b>	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 launder before reuse.
<b>First Aid</b>	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.
<b>Clean Up</b>	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

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, within their shelf life. 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 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 or can be accessed in the Internet under [www.sika.ca](http://www.sika.ca).



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