

Sika ViscoCrete[®] 4100

High Range Water Reducing Admixture

Description	Sika ViscoCrete 4100 is a high range water reducing and superplasticizing admixture utilizing Sika's 'ViscoCrete' polycarboxylate polymer technology.
	Sika ViscoCrete 4100 meets the requirements for ASTMC-494 Types A and F.
Applications	Sika ViscoCrete 4100 is designed for high early strength applications, and may also be used for the production of Self Consolidating Concrete (SCC). Sika ViscoCrete 4100 is a high range water reducer that provides excellent plasticity, prolonged workability and extended slump life even if used during the summer months.
	Sika ViscoCrete 4100 can be combined with accelerating or retarding admixtures to achieve required compressive strengths and setting time.
Curing	Cure concrete according to ASTM C-31/C-31M or other applied specification.
Advantages	Water Reduction: Sika ViscoCrete 4100 can be dosed in small amounts to obtain water reduction from 10-15%, and will achieve water reduction up to 40% at high dosage rates. Sika ViscoCrete 4100 is suitable for all levels of water reduction.
	High Plasticity and Cohesion: The special formulation of Sika ViscoCrete 4100 helps maintain the plasticity of the concrete and extends its workability time during warmer months when slump loss and fast stiffening of the fresh concrete can be a concern. The superplasticizing action of Sika ViscoCrete 4100 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 as low as 0.25.
	Sika ViscoCrete 4100 maintains excellent cohesion within the concrete matrix, and eliminates excessive bleeding or segregation. The unique plasticizing effect of Visco-Crete 4100 provides excellent formed surface finish.
	The combined high range water reduction and superplasticizing action of Sika Visco- Crete 4100 provide the following benefits in hardened concrete:
	 High early compressive strengths for earlier removal of forms and structural use of concrete.
	 High ultimate strengths allow for greater engineering design flexibility and structural economies.
	 Reduced water cement ratios produce more durable, dense concrete with re- duced permeability.
	 Highly effective plasticizer reduces surface defects in concrete elements and improves aesthetic appearance.
	 Ideal for the production of Self Consolidating Concrete.
	Sika ViscoCrete 4100 has been formulated to provide maximum water reduction, increased early strength, improved finishing characteristics, especially when a broom is desired.
	Sika ViscoCrete 4100 does not contain formaldehyde, calcium chloride or any other intentionally added chlorides, and will not initiate or promote the corrosion of steel present in the concrete.
How to Use	
Dosage	Dosage rates will vary according to materials used, ambient conditions and the re- quirements of a specific project. Sika recommends dosage at 3-8 fl. oz. per 100 lbs. (195-520 ml/100 kg) of cementitious for general concrete applications. If maximum water reduction is required, dosage up to 12 fl. oz./100 lbs (780 ml/100 kg) of cementi- tious may be used. In this case, delayed setting times may occur.
®	Dosage rates outside the recommended range may be used where specialized materi- als 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 office or Sika technical service department at 1-800-933-7452 for further information.

d Sika ViscoCrete 4100 directly to freshly mixed e end of the batching cycle. dispensed as an integral material during the regular shly mixed concrete in a Ready Mix truck at the ect after the addition of Sika ViscoCrete 4100, Sika terials be mixed for 80-100 revolutions either in the truck. es: Sika ViscoCrete 4100 is highly effective as a with other Sika admixtures. If used in combination ter reducers it may affect the plastic properties of
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local regional office or technical service departmen ation.
a ViscoCrete 4100 is particularly well suited for vater reduction capability.
55 gallon drum (208 liter), 275 gallon totes (1040
red at above 40°F (5°C). If frozen, thaw and agitat
use conditions between 50°F and 80°F
(CAS:Mixture). May cause eye/skin/respiratory ed.
protective equipment (chemical resistant goggles/ ntact with skin and eyes. Use only in well ventilate nd water after use. Remove contaminated clothing
horoughly with water for 15 minutes. Skin : sh skin thoroughly for 15 minutes with soap and air. Ingestion : Do not induce vomiting. Dilute with es contact a physician immediately if symp-
(chemical resistant goggles/gloves/clothing).
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KEEP CONTAINER TIGHTLY CLOSEDKEEP OUT OF REACH OF CHILDRENNOT FOR INTERNAL CONSUMPTIONFOR INDUSTRIAL USE ONLYCONSULT 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.

NO OTHER WARRANTIES EXPRESSED OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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South East Region: Convers, GA, Phone: (770) 760-1300 South Central Region: Mesquite, TX, Phone: (972) 289-6480 Western Region: Santa Fe Springs, CA, Phone: (562) 903-3650

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Alberta: Edmonton, AB, Phone: (780) 486-6111

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

Regional Information and Sales Centers. For the location of your nearest Sika representative, contact your regional center.

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