

# Sika® ViscoCrete®-225 Powder

## High Range Water Reducing Powdered Superplasticizer

<b>Description</b>	Sika® ViscoCrete®-225 Powder is a third generation high range water reducing and superplasticizing powder admixture for use in concrete and mortar. It is based on Sika's patented 'ViscoCrete®' polycarboxylate polymer technology.
<b>Applications</b>	<p>Sika® ViscoCrete®-225 Powder may be used in a variety of concrete applications but is especially suited for the production of mortar and concrete dry mix. Sika® ViscoCrete®-225 Powder facilitates extreme water reduction, excellent flowability, optimal cohesion, and promotes excellent self compacting behavior.</p> <p>Sika® ViscoCrete®-225 Powder is recommended for the following applications:</p> <ul style="list-style-type: none"><li>■ Grouts in general</li><li>■ Non Shrink Grouts</li><li>■ Screeds in general</li><li>■ Self leveling Screeds</li><li>■ Gypsum and Anhydrite Screeds</li></ul> <p>Sika® ViscoCrete®-225 Powder has been formulated to provide maximum water reduction however is suitable and may be utilized for all levels of water reduction. Can be combined with other Sika® ViscoCrete® powders to attain maximum effects such as flowability and retardation.</p>
<b>Benefits</b>	<p>Sika® ViscoCrete®-225 Powder is a unique, specially formulated polycarboxylate powder that combines different mechanisms and is compatible with a variety of cement chemistries. Through surface adsorption and steric separation effect on the binder particles, in parallel to the hydration process, the following advantages may be observed:</p> <ul style="list-style-type: none"><li>■ Effective when utilized with cements that have high C3A, sulphate and alkali content.</li><li>■ Effective when utilized with ordinary portland cements (OPC) and blends of OPC and aluminate cements.</li><li>■ Compatible with other additives (i.e. citric acid).</li><li>■ Extremely high water reduction (resulting in high density and strengths).</li><li>■ Excellent flowability (resulting in greatly reduced placing and compacting efforts).</li><li>■ Increased high early strength development.</li><li>■ Improved shrinkage and creep behavior.</li><li>■ Low absorption time, "wets out" faster than competitive materials.</li><li>■ Medium retardation.</li><li>■ Ideal for use in self-leveling, self-compacting applications.</li></ul>

Concrete



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**How to Use**

<b>Dosage</b>	Depending on the application, the dosage of Sika® ViscoCrete®-225 Powder varies from 0.05 to 0.5% of the powder weight. At high dosage Sika® ViscoCrete®-225 Powder can cause retardation as well as at low temperatures.
<b>Mixing</b>	Sika® ViscoCrete®-225 Powder is added to the dry mix at the beginning of batching cycle. For optimum utilization of the high water reduction it is recommended to allow a minimal wet mixing time of 30 seconds. Sika® ViscoCrete®-225 Powder is highly effective as single added admixture or in combination with other Sika Admixtures.  If used in combination with certain Sikament® water reducing admixtures plastic properties can be affected. Please contact your local sales representative or technical service department at 1-800-933-7452 for further information.
<b>Packaging</b>	Sika® ViscoCrete® - 225 Powder is available in 44 lb. (20 kg) bags, 40 bags/pallet.
<b>Storage and Shelf Life</b>	Protect from direct sunlight and frost. Store in dry warehouse conditions between 45°F and 80°F (7°C - 27°C).  Shelf life when stored properly in undamaged, unopened, original sealed packaging in dry warehouse conditions between 45°F and 80°F (7°C - 27°C) is 1 year.
<b>Typical Data</b>	
<b>Appearance</b>	White Powder
<b>Density</b>	Bulk Density - $0.6 \pm 0.1 \text{ g/cm}^3$

**KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY • FOR PROFESSIONAL USE ONLY**

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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 Product 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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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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