

Sika® ViscoCrete®-225 Powder

High Range Water Reducing Powdered Superplasticizer

Construction

Description 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.

Where to Use 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. High water reduction, excellent flowability, coupled with good early strengths, have a very positive influence on the properties of the mortars and concrete containing it.

Sika® ViscoCrete®-225 Powder facilitates extreme water reduction, excellent flowability, optimal cohesion, and promotes excellent self-compacting behavior.

Sika® ViscoCrete®-225 Powder is recommended for the following applications:

- Grouts in general (including non-shrink grouts)
- Screeds in general (including self-levelling screeds)
- Gypsum and anhydrite screeds

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.

Advantages 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:

- Effective when utilized with cements that have high C3A, sulphate and alkali content.
- Effective when utilized with ordinary portland cements (OPC) and blends of OPC and aluminate cements.
- Compatible with other additives (i.e. citric acid).
- Extremely high water reduction (resulting in high density and strengths).
- Excellent flowability.
- Increased high early strength development.
- Improved shrinkage and creep behavior.
- Low absorption time.
- Medium retardation.
- Ideal for use in self-levelling, self-compacting applications.

Typical Data

Packaging

20 kg (44 lb) bag, 40 bags/pallet

Colour and Form

White powder

Shelf Life and Storage

1 year when stored properly in undamaged, unopened, original sealed packaging in dry warehouse conditions between 7 - 27°C (45 - 80°F). Protect from direct sunlight and frost.

Product Conditioning : Bag has to be sealed airtight after opening to prevent access of moisture, which will cause the polymer to lump due to its hygroscopic nature.

Properties

Density

Approx. 1.1



Sika®

How to Use

Dosage	Depending on the application, the dosage of Sika® ViscoCrete®-225 Powder varies from 0.05 - 0.5% of the powder weight. At high dosage Sika® ViscoCrete®-225 Powder can cause retardation as well as at low temperatures.
Mixing	<p>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.</p> <p>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.</p> <p>Please contact your Sika Canada Technical Sales Representative for further information.</p>
Curing	As per ACI recommendation for portland cement concrete.
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.
Health and Safety Information	<p>For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.</p> <p>KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY</p>

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 Product 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.

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