



PRODUCT DATA SHEET

Sika® ViscoCrete®-225 P

HIGH RANGE WATER REDUCING POWDERED SUPERPLASTICIZER

PRODUCT DESCRIPTION

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

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-225 P 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 (resulting in greatly reduced placing and compacting efforts).
- Increased high early strength development.
- Improved shrinkage and creep behavior.
- Low absorption time, "wets out" faster than competitive materials.
- Medium retardation.
- Ideal for use in self-leveling, self-compacting applications.

PRODUCT INFORMATION

CSC MasterFormat®	03 05 00
Packaging	20 kg (44 lb) bag, 40 bags/pallet
Appearance / Colour	White powder
Shelf Life	Shelf life when stored properly in undamaged, unopened, original sealed packaging in dry warehouse conditions between 7°C - 27°C (45°F and 80°F) is 1 year.
Storage Conditions	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.
Density	Approx. 1.1

APPLICATION INFORMATION

Recommended Dosage	Depending on the application, the dosage of Sika® ViscoCrete®-225 P varies from 0.05 - 0.5% of the powder weight. At high dosage Sika® ViscoCrete®-225 P can cause retardation as well as at low temperatures.
Mixing	Sika® ViscoCrete®-225 P 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 P 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 Sika Canada Technical Sales Representative for further information.

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

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 in accordance with Sika's recommendations. 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 information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted

subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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