Sika® ViscoCrete®-225 Powder
High Range Water Reducing Powdered Superplasticizer

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.

Applications
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.

Sika® ViscoCrete®-225 Powder is recommended for the following applications:
- Grouts in general
- Non Shrink Grouts
- Screeds in general
- Self leveling 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.

Benefits
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 (resulting in greatly reduced placing and compacting efforts).
- Increased high early strength development.
- Improved shrinkage and creep behavior.
- Low absorption time, “wets out” faster then competitive materials.
- Medium retardation.
- Ideal for use in self-leveling, self-compacting applications.
How to Use

Dosage
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.

Mixing
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.

Packaging
Sika® ViscoCrete® - 225 Powder is available in 44 lb. (20 kg) bags, 40 bags/pallet.

Storage and Shelf Life
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.

Typical Data

Appearance
White Powder

Density
Bulk Density - 0.6 ± 0.1 g/cm³