

Sika® ViscoCrete®-225 P

High performance superplasticizer

Product Description

Sika® ViscoCrete®-225 P is a high-performance superplasticizer in powder form based on Sika® ViscoCrete® polycarboxylate polymer technology.

Uses

Sika® ViscoCrete®-225 P is especially suitable for the production of dry mixed mortars and dry mix concrete with high calcium sulphate content or pure gypsum systems. The product. Sika® ViscoCrete®-225 P can be used in the following binder systems:

- Especially cements with high C₃A, sulphate and alkali content
- CEM I, CEM II, CEM III and high-alumina cement
- Calcium sulphate binders

Sika® ViscoCrete®-225 P is especially suitable for the following application fields:

- Calcium sulphate- and cement-bound self levelling screeds
- self-levelling underlayments
- non-shrink grouts & tile adhesives

Characteristics / Advantages

Sika® ViscoCrete®, Sika's polycarboxylate technology, works based on a combination of electrostatic forces and steric repulsion effects. Thus, solid particles can be effectively dispersed.

The benefits include, but are not limited to the following:

- High water reduction at low dosage (resulting in shorter drying time, high density and strength)
- Reduced mixing times due to rapid adsorption
- Long-term stability enables long slump life
- Efficiency over a wide pH-range
- Very good flowability and self-levelling behaviour
- self-compacting behaviour
- Increased strengths development
- Improved shrinkage and creep behaviour
- Compatible with other additives, e.g. citric acid
- Low influence on hydration, thus low activator/accelerator consumption
- Free of formaldehyde and ammonia

Approval / Standards

Confirms to EN 934-2 tab. 3.1/3.2 (superplasticizer)

Product Data

Appearance / Colour

White powder

Chemical Base

Modified polycarboxylate

Density (DIN 1060)

Bulk density: 0.6 ± 0.1 g/cm³



pH-Value	4.0 ± 0.5 at +23°C (40% solution)
Alkali content	≤ 2.0 % (Na ₂ O-equiv.)
Total Chloride Ion Content	≤ 0.1 %
Packaging	20 kg bags / 800 kg per pallet
Storage	Dry storage at temperatures up to 30°C. Protect from direct sunlight. 12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.

Processing

Consumption / Dosage	Depending on the application, the dosage of Sika® ViscoCrete®-225 P varies from 0.05 to 0.5% of the binder weight. At high dosage Sika® ViscoCrete®-225 P can cause retardation as well as at low temperatures.
Dispensing / Mixing	Sika® ViscoCrete®-225 P is added to the dry mix. For optimum utilisation of the high water reduction we recommend a minimal wet mixing time of 30 seconds for mortar.
Compatibility	Sika® ViscoCrete®-225 P may be combined with many other Sika® Products as well as with most existing accelerators, retarders and other additives used in dry-mortar applications. In combination i.e. with Sika® ViscoCrete® Powders improvements in flowability and retardation may be achieved. Important: Always conduct trials before combining products in specific mixes and contact our technical service for information about specific combinations with Sika products.

Important Advices

Value Base	All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.
Health, Safety and Environment Information	Product code BZM 1 For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.
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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.



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