

PRODUCT DATA SHEET

Sika® ViscoCrete®-430 P

High-Performance Superplasticizer



DESCRIPTION

Sika® ViscoCrete®-430 P is a high-performance, superplasticizer and water reducer in powder form, based on Sika® ViscoCrete® polycarboxylate (PCE) polymer technology.

USES

Sika® ViscoCrete®-430 P can be used in dry mortar and binder systems with high calcium sulphate content including:

- Portland and Portland composite cements
- Especially cements with a high sulphate and alkali content
- Alkaline activated calcium sulfate based binders, e.g. synthetic anhydrite

Sika® ViscoCrete®-430 P is especially suitable for the manufacture of calcium sulphate flow screeds (ready-mix or transport-mixing and pumping-systems) but also other self-levelling screeds and underlayments, grouts and tile adhesives.

FEATURES

Sika® ViscoCrete®-430 P is adsorbed onto the surface of the binder particles and due to repulsive forces from the effect known as steric hindrance, the solid binder particles are very effectively dispersed in the mix.

The benefits of Sika® ViscoCrete®-430 P include, but are not limited to the following:

- High water reduction at low dosage
- Robustness regarding different sand qualities
- Very high initial flow
- Short mixing times due to fast adsorption
- Long-term stability which enables long slump life
- Efficiency over a wide pH-range
- Very good flow and self-levelling behaviour
- Self-compacting behaviour
- Increased strength development
- Improved shrinkage and creep behaviour
- Compatible with other additives
- Low influence on hydration, resulting in low activator/accelerator consumption
- Free of formaldehyde and ammonia

CERTIFICATES AND TEST REPORTS

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

PRODUCT INFORMATION

Composition	Modified polycarboxylates
Packaging	20 kg bags / 800 kg per pallet
Appearance and colour	White to yellowish powder
Shelf life	24 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Dry storage at temperatures up to 30 °C. Protect from direct sunlight.

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Bulk density	0.51 - 0.61 g/cm ³
pH-Value	4.0 - 5.0 at +23°C (50% solution)
Total chloride ion content	≤ 0.1 %
Equivalent sodium oxide	≤ 2.0 %

APPLICATION INFORMATION

Recommended dosage	Depending on application the dosage rate of Sika® ViscoCrete®-430 P is between 0.05 and 0.5 % by weight of binder. At high dosage and/or at low temperatures Sika® ViscoCrete®-430 P can also cause retardation of the binder reaction. At too high dosage, the mixture may also tend to repel water or to separate. Note: Preliminary testing is required to determine the exact dosage for your specific conditions. Please contact our Technical Services Department for more information and advice.
Compatibility	Sika® ViscoCrete®-430 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 order to achieve an optimal effect with respect to initial liquefaction and open time, the combination with other Sika® ViscoCrete® Powders is possible. Important: Always conduct trials before combining products in any specific mix design and contact our Technical Services Department for any additional information and advice concerning specific combinations with other products.
Dispensing	Sika® ViscoCrete®-430 P is added to the dry mix. For optimum utilisation of the high water reduction capability, the mortar must be mixed intensively. The wet mixing time depends on the mixer.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND 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 the 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 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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