

PRODUCT DATA SHEET

Sika® ViscoCrete®-520 P

High-performance superplasticizer



DESCRIPTION

Sika® ViscoCrete®-520 P is a high-performance superplasticizer and water reducer in powder form based on Sika® ViscoCrete® polycarboxylate (PCE) polymer technology.

USES

Sika® ViscoCrete®-520 P is especially formulated for use in ternary binder systems but it can also be used in calcium sulphate (gypsum) based binders e.g. al-phahemihydrate and andydrate. The product is particularly suitable for the production of:

- Self-levelling underlayments, levelling compounds and fillers
- Calcium sulphate self-levelling screeds
- Non-shrink grouts, anchor grouts, tile adhesives, injection and repair mortars

FEATURES

Sika® ViscoCrete®-520 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®-520 P include, but are not limited to the following:

- High water reduction at low dosage, resulting in shorter drying times, higher densities and strengths
- Greatly reduced processing and compaction efforts due to very good flow and self-levelling behaviour
- Particularly high performance in systems with pH-value < 11.5
- Reduced mixing times due to fast adsorption
- High initial flow, long slump life and processing time
- Improved shrinkage and creep behaviour
- Low influence on hydration, resulting in low activator/accelerator consumption
- Compatible with other additives (e.g. fruit acids, such as citric acid)
- Free of formaldehyde and ammonia

CERTIFICATES AND TEST REPORTS

Confirms to EN 934-2, Table 3.1/3.2

PRODUCT INFORMATION

Composition	Modified polycarboxylate
Packaging	20 kg bag, 800 kg per pallet; 500 kg bigbag
Appearance and colour	White 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 40 °C. Protect from direct sunlight.
Bulk density	0.6 ± 0.1 g/cm ³

PRODUCT DATA SHEET

Sika® ViscoCrete®-520 P

August 2025, Version 01.03

021304011000000041

pH-Value	4.0 ± 0.5 at +23 °C (40 % solution)
Total chloride ion content	≤ 0.1 %
Equivalent sodium oxide	≤ 2.0 % (Na ₂ O-equiv.)

APPLICATION INFORMATION

Recommended dosage	Depending on the application the dosage rate of Sika® ViscoCrete®-520 P varies from 0.05 - 0.5 % of the binder weight. At high dosage and/or at low temperatures Sika® ViscoCrete®-520 P can also cause retardation. 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 specific conditions. Please contact our Technical Service Department for more information and advice.
Compatibility	Sika® ViscoCrete®-520 P may be combined with most existing redispersible powders, accelerators, retarders and other additives used in dry-mix applications. In order to achieve an optimal effect with respect to initial li-quefaction and slump keeping, the combination with another Sika Vis-coCrete Powder is possible. Important: Always conduct trials before combining products in specific mix designs and contact our Technical Service Department for any additional information and advice concerning specific combinations with other products.
Dispensing	Sika® ViscoCrete®-520 P is added to the dry mix. For optimum utilisation of the high water reduction capability, a minimum wet mixing time of 30 seconds is recommended for the mortar before use.

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.

Sika Deutschland CH AG & Co KG
Kornwestheimer Straße 103 - 107
D - 70439 Stuttgart
Tel.: +49 711 8009-0
Fax: +49 711 8009-321
info@de.sika.com
www.sika.de