

PRODUCT DATA SHEET

Sika® ViscoCrete®-556 P EU

High-performance superplasticizer



DESCRIPTION

Sika® ViscoCrete®-556 P EU is a high-performance superplasticizer and water reducer in powder form, based on Sika® ViscoCrete® polycarboxylate ether (PCE) polymer technology.

USES

Sika® ViscoCrete®-556 P EU is formulated for use in drymix mortar applications. Especially suitable for cements with high C₃A, sulphate and alkali content also for CEM II and CEM III. Suitable for a wide range of calcium sulphate or ternary binder systems. Sika® ViscoCrete®-556 P EU is universally applicable and can be used for the production of:

- Calcium sulphate self-leveling screeds based on natural, synthetic and FDG anhydrite
- Ternary self-leveling underlayments, high OPC and high CAC content
- Non-shrink grouts and self-compacting concretes with low w/c-ratio

FEATURES

Sika® ViscoCrete®-556 P EU 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®-556 P EU include, but are not limited to the following:

- Reduced mixing times due to fast adsorption
- Excellent powder flow properties, even at elevated temperatures
- Ideally suited for automatic dosing systems
- High initial flow, long slump life and processing time
- Neutralized and spray-dried uniform particle size
- High water reduction potential for higher strengths
- Enabling lower carbon footprint recipes for drymix mortar
- Compatible with other drymix additives, e.g. retarder
- Free of formaldehyde and ammonia

CERTIFICATES AND TEST REPORTS

Conforms to EN 934–2, Table 3.1/3.2

PRODUCT INFORMATION

Composition	Modified, neutralized polycarboxylate ether
Packaging	20 kg bags / 500 kg per pallet
Appearance and colour	White to slightly yellowish powder
Shelf life	18 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
pH-Value	9.8 ± 0.5 at +23 °C (40 % solution)
Total chloride ion content	≤ 0.1 %

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Sika® ViscoCrete®-556 P EU
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APPLICATION INFORMATION

Recommended dosage	Depending on the application the dosage rate of Sika® ViscoCrete®-556 P EU varies from 0.05 - 0.5 % of the binder weight. At high dosage and/or at low temperatures Sika® ViscoCrete®-556 P EU 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 your specific conditions. Please contact our Technical Services Department for more information and advice.
Compatibility	Sika® ViscoCrete®-556 P EU may be combined with many commonly used redispersible powders, accelerators, retarders and other additives used in drymix mortar formulations. In order to achieve an optimal effect with respect to initial flow and slump keeping, the combination with another Sika® ViscoCrete® Powder is possible. Important: Always conduct trials before combining products in specific mix designs or additive-premixes and contact our Technical Services Department for more information and advice concerning specific combinations with other products.
Application time	Sika® ViscoCrete®-556 P EU 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