

PRODUCT DATA SHEET

Sika® ViscoCrete®-111 P

High-performance superplasticizer



DESCRIPTION

Sika® ViscoCrete®-111 P is a high-performance superplasticizer and water reducer in powder form based on Sika® ViscoCrete® polycarboxylate (PCE) polymer technology.

USES

Sika® ViscoCrete®-111 P is formulated for use in dry mortar applications and can be used with different hydraulic binder systems:

- Portland cement (OPC) and cement blends
- Ternary blended binders

Sika® ViscoCrete®-111 P is especially suitable for the following dry-mortar applications:

- Cement screeds (including self-levelling screeds) and underlayments
- Grouts (including non-shrink grouts) & tile adhesives

FEATURES

Sika® ViscoCrete® 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 characteristics and advantages of Sika® ViscoCrete®-111 P include:

- Slow adsorption
- Long-term stability which enables very long slump life
- Free of formaldehyde and ammonia
- Good water reduction at low dosage (resulting in shorter drying times, higher densities and strengths)
- Good flow and self-levelling behaviour
- Improved shrinkage and creep behavior
- Compatible with other additives

CERTIFICATES AND TEST REPORTS

Confirms to the requirements of EN 934-2, Table 3.1/3.2 (superplasticizer)

PRODUCT INFORMATION

Composition	Modified polycarboxylate polymer (PCE)
Packaging	20 kg bag / 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.
Bulk density	Approx. 0.6 g/cm ³
pH-Value	Approx. 4 (40 % solution)
Total chloride ion content	≤ 0.1 %

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APPLICATION INFORMATION

Recommended dosage	Depending on application dosage rate of Sika® ViscoCrete®-111 P is between 0.05 - 0.5 % by weight of binder. At high dosage and at low temperatures Sika® ViscoCrete®-111 P can also cause retardation.
Compatibility	Sika® ViscoCrete®-111 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 these combinations with Sika® ViscoCrete®-111 P, additional improvements in flow and retardation may also be achieved. Important: Always conduct trials before combining products in specific mix designs and contact our Technical Services Department for any additional information and advice concerning specific combinations with other products.
Dispensing	Sika® ViscoCrete®-111 P is added to the dry mix. For optimum utilisation of the high water reduction capability, a minimum wet mixing 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.

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