

PRODUCT DATA SHEET

Sika® ViscoCrete®-5002

HIGH PERFORMANCE SUPERPLASTICISER

DESCRIPTION

Sika® ViscoCrete®-5002 is a highly effective liquid superplasticiser for the production of free flowing concrete or as a substantial water-reducing agent for promoting high ultimate strengths.

USES

Sika® ViscoCrete®-5002 is used as a superplasticiser in the production of free flowing concrete for:

- All precast concrete
- Slabs and foundations
- Walls, columns and piers
- Slender components with densely packed reinforcements
- Textured surface finishes

Sika® ViscoCrete®-5002 is also used as a high range water reducing admixture for:

- High strength concrete
- High durability concrete (low w/c ratio)
- High strength and durability precast products

FEATURES

Sika® ViscoCrete®-5002 is an economical superplasticiser based on advanced technology which gives the following advantages :

- High water reduction, resulting in high density, high strength and reduced permeability.
- Extended workability in conjunction with subsequent fast strength development.
- Excellent plasticising effect, resulting in improved flow, placing and compaction characteristics.
- Reduced shrinkage during curing and reduced creep when hardened.
- Provides many opportunities for cost improvement e.g.: Cement reduction, More economic mix design, Reduced energy costs for steam curing precast elements, Reduction of potential claims etc.

Sika® ViscoCrete®-5002 does not contain chlorides or any other ingredients which promote the corrosion of steel. It is therefore suitable for use in reinforced and prestressed concrete structures.

PRODUCT INFORMATION

Composition	Modified polycarboxylate in water.
Packaging	<ul style="list-style-type: none">▪ 200 L drum▪ 1 000 L IBC▪ Bulk delivery
Appearance and colour	white to yellow
Shelf life	12 months from date of production
Storage conditions	Store in undamaged and unopened, original sealed containers, protected from direct sunlight and frost, at temperatures between +10 °C and +35 °C.

APPLICATION INFORMATION

Recommended dosage	For medium workability : 0.6 % - 1.0 % by weight of binder For concrete with high workability, very low water/cement ratio : 1.1 % - 2.0 % by weight of binder
Compatibility	Sika® ViscoCrete®-5002 may be combined with the following products: <ul style="list-style-type: none">▪ Plastiment® 83AM▪ Plastiment® VZ▪ Sika® Fume▪ SikaFibre® Do not use viscocrete / viscoflow series combined with sikament series. To produce flowing and / or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required. Please consult to our Technical Service Department.

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

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.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® ViscoCrete®-5002 shall be dispensed neat into the premixed concrete after all the other concrete components, including total water, have been discharged into the pan-mixer or truck mixer. Do not dilute Sika® ViscoCrete®-5002.

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 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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