

PRODUCT DATA SHEET

Sika® ViscoCrete®-400

POWERFUL SUPERPLASTICIZING CONCRETE ADMIXTURE WITH SLUMP RETENTION



DESCRIPTION

Sika® ViscoCrete®-400 is high performance 3rd generation superplasticizer.

USES

Sika® ViscoCrete®-400 is especially suitable for mix production with high initial slump and slump maintenance. It is used for the following applications:

- For site batched concrete with high final strengths
- For concrete with demand for high water reduction
- For high demand qualitative concrete
- For high durability concrete
- For applications where there is need for high initial workability and long-term maintenance of it
- For concreting at high temperatures
- For concrete transportations at long distances
- For ready mix concrete for high demand projects
- For Ready Mix Units

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-400 is a powerful superplasticizer that offers high initial slump and workability maintenance. With its use we have the following advantages:

- Concrete production with high initial slump category
- High concrete flowability and prolonged maintenance of it
- Workable concrete even in cases of concreting under high temperatures
- Easiness in handling, placing and vibrating concrete
- Concrete production with high density and reduced water permeability
- Reduced shrinkage and creep
- Constructions with high aesthetical appearance and prolonged durability
- SSika® ViscoCrete®-400 does not contain chlorides and is therefore suitable for prestressed and reinforced concrete.

APPROVALS / CERTIFICATES

High range water reducing / superplasticizing admixture (& Set retarding / high range water reducing / superplasticizing admixture) according to EN 934.02:2009, T. 3.1 - 3.2 & T. 11.1 - 11.2, DoP 59921059 and provided with the CE Mark.

PRODUCT INFORMATION

Chemical base	Aqueous solution of polycarboxylates
Packaging	IBC, 220kg barrels, 20 kg containers Bulk supply upon request
Appearance / Colour	Liquid, light brown
Shelf life	8 months from date of production
Storage conditions	Store properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.
Density	~1,04 kg/l (at +20°C)

pH-Value 3,5 – 5,5 (at +20°C)

Total Chloride Ion Content Free (EN 934.01)

TECHNICAL INFORMATION

Concreting Guidance The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.

Specific Advice

- When using Sika® ViscoCrete®-400 a suitable mix design has been taken into account and local material sources should be trialled.
- Sika® ViscoCrete®-400 should not be added to dry cement.
- Sika® ViscoCrete®-400 should be added with the mixing water or introduced at the end of the mixing process.
- Before application, suitability tests must be performed.

APPLICATION INFORMATION

Recommended Dosage 0,4 – 2,0% by weight of cement.

Compatibility Sika® ViscoCrete®-400 can be combined with the following Sika products:

- Sika® Plastiment® series
- Sika® Plastocrete® N/ Sika® -1+ / Sika® WT-200 P
- Sika® Visco I-100
- Sika-Aer® Fine
- Sika® Ferrogard®-901 S
- Sikafume® HR-D / Sikacrete® AR
- Sika® Sigunit® shotcrete accelerators

Trials are recommended before combining products.

Dispensing Sika® ViscoCrete®-400 is added to the gauging water at the plant or added on-site into the concrete mixer.

Restrictions

- When using Sika® ViscoCrete®-400 a suitable mix design has been taken into account and local material sources should be trialled.
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BASIS OF PRODUCT DATA

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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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