

PRODUCT DATA SHEET

Sika® ViscoCrete®-30 Techno

NEW GENERATION SUPERPLASTICIZING CONCRETE ADMIXTURE



DESCRIPTION

Sika® ViscoCrete®-30 Techno is a new generation superplasticizing admixture for high performance concrete.

USES

Sika® ViscoCrete®-30 Techno is a 3rd generation superplasticizer and is based on the polycarboxylate polymer technology. Its use enables the production of concrete with very high water reduction and increased flow ability at the same time. It is used in cases such as:

- Production of site-batched concrete for high demand projects
- Increase early and final strengths
- In precast concrete elements
- In the production of high quality concrete mixes
- For concrete with high slump demands (S4 or S5) and low W/C ratio (<0,50)
- In Ready mix production units
- In cases of extended transportation times

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-30 Techno is a powerful superplasticizer that offers very high initial workability and also:

- Enables class S4 & S5 slump, even in concrete with very low W/C ratio
- Produces extremely flow able concrete with slump retention
- Produces concrete with high initial and final strengths, low water permeability, resistance to mechanical and chemical attacks, exceptional durability over time, as well as with extremely good aesthetic results
- Reduced shrinkage and creeping
- For constructions with exceptional aesthetic results and prolonged durability over time
- Sika® ViscoCrete®-30 Techno does not contain chlorides and is therefore suitable for prestressed and reinforced concrete

APPROVALS / CERTIFICATES

CE-marking and Declaration of Performance as High range water reducing / Superplasticizing admixture (Tables 3.1 & 3.2) according to EN EN934-2:2009+A1:2012, based on certificate of factory production control issued by notified factory production control certification body and type testing.

PRODUCT INFORMATION

Composition	Aqueous solution of polycarboxylate polymers
Packaging	IBC, barrels, containers Bulk supply upon request
Appearance / Colour	Liquid, light brown
Shelf life	8 months from date of production
Storage conditions	Store 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 934-2)

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.
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APPLICATION INFORMATION

Recommended Dosage	0,3 – 2,0 % by weight of cement
Compatibility	Sika® ViscoCrete®-30 Techno can be combined with the following Sika products: - Sika® Plastiment® series - Sika® Plastocrete®-100 N/ Sika® WT-140 L / Sika® WT-200 P - Sika® Visco I-100 - Sika® Aer Fine - Sika® Ferrogard®-901 S - Sikafume® HR-E / Sikacrete® AR Trials are recommended before combining products.
Dispensing	Sika® ViscoCrete®-30 Techno is added to the gauging water at the plant or added on-site into the concrete mixer.
Restrictions	<ul style="list-style-type: none"> ▪ When using Sika® ViscoCrete®-30 Techno a suitable mix design has been taken into account and local material sources should be trialled. ▪ Sika® ViscoCrete®-30 Techno should not be added to dry cement. ▪ Sika® ViscoCrete®-30 Techno should be added with the mixing water or introduced at the end of the mixing process. ▪ Before application, suitability tests must be performed.

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.

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.

Sika Hellas ABEE
15 Protomagias Str.
14568 Kryoneri
Attica-Greece
Tel.: +30 210 8160 600
Fax: +30 210 8160 606
www.sika.gr | sika@gr.sika.com



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