

# PRODUCT DATA SHEET

## Sika® ViscoCrete® Techno-10+

NEW GENERATION SUPERPLASTICIZING CONCRETE ADMIXTURE



### DESCRIPTION

Sika® ViscoCrete® Techno-10+ is a new generation, powerful, superplasticizing concrete admixture for demanding concrete applications.

### USES

Sika® ViscoCrete® Techno-10+ is based on the 3rd generation polycarboxylate polymer technology. It offers high water reduction and high initial flow ability in demanding concrete mixes. It is used in the following cases:

- Production of site batched concrete for high demand projects
- For concrete with high initial and final strengths
- Production of high demand & quality concrete
- Concrete of slump category S4 / S5 and low W/C ratio
- For Ready Mix Production units

### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® Techno-10+ is a powerful superplasticizer that allows for very high initial workability in the mix and moreover:

- Enables class S4 & S5 slump, even in concrete with very low W/C ratio
- Produces mixes with high flowability
- Produces concrete with high initial and final strengths
- Hardened concrete has reduced shrinkage and creep
- Can be used for constructions with demands for high durability, as well as with high aesthetical demands
- Sika® ViscoCrete® Techno-10+ does not contain chloride and is therefore suitable for prestressed and reinforced concrete

### APPROVALS / CERTIFICATES

High range water reducing / superplasticizing admixture (Tables 3.1 & 3.2) according to EN 934.02:2009+A1:2012, Declaration of Performance 99426218, and provided with the CE-mark.

### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of polycarboxylate polymers
<b>Packaging</b>	IBC, 210 kg drums, 20 kg containers. Bulk supply on demand.
<b>Appearance / Colour</b>	Liquid, light brown
<b>Shelf life</b>	8 months from date of production
<b>Storage conditions</b>	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.
<b>Density</b>	~1,04 Kg/l (at +20 °C)
<b>pH-Value</b>	3,5 – 5,5 (at +20 °C)
<b>Total Chloride Ion Content</b>	Free (EN 934.01)

## TECHNICAL INFORMATION

<b>Concreting Guidance</b>	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

<b>Recommended Dosage</b>	0,3 – 2,0 % by weight of cement
<b>Compatibility</b>	Sika® ViscoCrete® Techno-10+ can be combined with the following Sika products: - Sika® Plastiment® series - Sika® Plastocrete® N/ Sika® WT-140 L / Sika® WT-200 P - Sika® Visco I-100 - Sika-Aer® Fine - SikaRapid®-2 - Sika® Ferrogard®-901 S - Sika® Antifreeze - Sikafume® HR-E / Sikacrete® AR - Sigunit® shotcrete accelerators Trials are recommended before combining products.
<b>Dispensing</b>	Sika® ViscoCrete® Techno-10+ is added to the gauging water at the plant or added on-site into the concrete mixer.
<b>Restrictions</b>	<ul style="list-style-type: none"><li>▪ When using Sika® ViscoCrete® Techno-10+ a suitable concrete mix has to be designed and local material sources should be tested.</li><li>▪ Sika® ViscoCrete® Techno-10+ should not be added to dry cement.</li><li>▪ Sika® ViscoCrete® Techno-10+ should be added with the mixing water or introduced at the end of the mixing process.</li><li>▪ Before application, suitability tests must be performed.</li></ul>

## 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.

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