

PRODUCT DATA SHEET

Sika® ViscoCrete® Techno 20

POWERFUL SUPERPLASTICIZING CONCRETE ADMIXTURE



DESCRIPTION

Sika® ViscoCrete® Techno 20 is a powerful superplasticizing admixture for high performance concrete.

USES

Sika® ViscoCrete® Techno 20 is based on the polycarboxylate polymer technology and is suitable for the production of high demand concrete mixtures, offering water reduction and/ or high flow ability at the same time. It is used for:

- Increase of early and final strengths
- Precast concrete elements
- The production of job site concrete for high demand projects
- Concrete with high slump demands (S4 or S5) and low W/C ratio (<0.50)
- Ready mix production units
- Wet shotcrete mixes

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® Techno 20 is a powerful superplasticizer that allows for very high initial workability, in combination with very high water reduction in the mix and also:

- Enables class S4 & S5 slump, even in concrete with very low W/C ratio
- Produces extremely flow able concrete
- Produces concrete with high initial and final strengths, low water permeability, resistance to mechanical and chemical attacks, exceptional durability over time
- Produces concrete with reduced shrinkage and creeping
- Concrete constructions exhibit high durability over time, as well as high aesthetical appearance
- Sika® ViscoCrete® Techno 20 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 39596845, and provided with the CE-mark.

PRODUCT INFORMATION

Chemical base	Aqueous solution of polycarboxylate polymers
Packaging	IBC, 220 kg drums, 20 kg containers. Bulk supply on demand.
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	~1.05 Kg/l (at +20°C)

pH-Value 3.2 – 5.2 (at +20°C)

Total Chloride Ion Content Free (EN 934.01)

APPLICATION INFORMATION

Recommended Dosage 0.3 – 2.0 % by weight of cement

Compatibility Sika® ViscoCrete® Techno 20 can be combined with the following Sika products:

- Plastiment® series
- Sika® Visco I-100
- Sika® Aer Fine
- Sigunit® shotcrete accelerators series
- SikaRapid®-2
- Sika® Antifreeze
- Sika® Ferrogard®-901 S
- Sikafume® HR-E / Sikacrete® AR

Trials are recommended before combining products.

Dispensing Sika® ViscoCrete® Techno 20 is added to the gauging water at the plant or added on-site into the concrete mixer.

Restrictions

- When using Sika® ViscoCrete® Techno 20 a suitable concrete mix should be designed local raw material sources should be tested.
- Sika® ViscoCrete® Techno 20 should not be added to dry cement.
- Sika® ViscoCrete® Techno 20 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. 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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