

PRODUCT DATA SHEET

Sika® Viscocrete® Techno-40

POWERFUL SUPERPLASTICIZING CONCRETE ADMIXTURE WITH PROLONGED WORKABILITY



DESCRIPTION

Sika® Viscocrete® Techno-40 is a powerful superplasticizing admixture, used for production of concrete mixes with high water reduction, increased workability and need to long workability retention.

USES

Sika® Viscocrete® Techno-40 is based on the polycarboxylate polymer technology and is suitable for the production of high demand concrete mixtures, offering water reduction and/ or high initial flow ability, which is prolonged. Its special characteristics enable production of:

- RMC for high demand projects
- High quality site batched concrete for special demand projects
- Concrete with high initial and final strengths
- Concrete with high slump demands (S4 or S5) and low W/C ratio (<0.50)
- Concrete with slump maintenance under high temperatures

CHARACTERISTICS / ADVANTAGES

Sika® Viscocrete® Techno-40 is a powerful superplasticizer that allows for very high initial workability in the mix and prolonged maintenance of it. Moreover:

- Enables class S4 & S5 slump, even in concrete with very low W/C ratio
- Prolongs the initially high flowability of concrete mixes
- Produces concrete with high initial and final strengths, low water permeability, resistance to mechanical and chemical attacks
- Hardened concrete has reduced shrinkage and creep
- It is suitable for concrete constructions with high durability over time, as well as high aesthetical appearance
- Sika® Viscocrete® Techno-40 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 46808485, and provided with the CE-mark.

PRODUCT INFORMATION

Chemical base	Aqueous solution of modified 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 original, sealed, undamaged 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	3.4 – 5.4 (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.
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APPLICATION INFORMATION

Recommended Dosage	0.3 – 2.0 % by weight of cement
Compatibility	Sika® Viscocrete® Techno-40 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 - SikaRapid®-2 - Sika® Ferrogard®-901 S - Sika® Antifreeze - Sikafume® HR-E / Sikacrete® AR - Sigunit® shotcrete accelerators Trials are recommended before combining products.
Dispensing	Sika® Viscocrete® Techno-40 is added to the gauging water at the plant or added on-site into the concrete mixer.
Restrictions	▪ When using Sika® Viscocrete® Techno-40 a suitable mix design has to be taken into account and local material sources should be tested. ▪ Sika® Viscocrete® Techno-40 should not be added to dry cement. ▪ Sika® Viscocrete® Techno-40 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.

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