

PRODUCT DATA SHEET

Sika® ViscoCrete® Techno-90

POWERFUL SUPERPLASTICIZING CONCRETE ADMIXTURE FOR PROLONGED WORKABILITY



DESCRIPTION

Sika® ViscoCrete® Techno-90 is a 3rd generation powerful superplasticizer based on polycarboxylate technology, offering high water reduction as well as prolonged workability.

USES

Sika® ViscoCrete® Techno-90 is suitable for site-batched concrete and Ready Mix concrete with high demands. Moreover it offers high reduction of W/C ratio, allowing at the same time superplasticizing action and prolonged slump retention. It is recommended:

- For all purpose concrete applications, where the mix has to be very flowable and should maintain its workability
- For high strength concrete
- For concreting in high temperatures and in cases of high distance concrete transportations and/ or in cases of prolonged concrete workability
- For high demand concrete

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® Techno-90 is a powerful superplasticizer that offers:

- Very high water reduction (resulting in concrete production with high density and strengths)
- Extremely high water flowability and plasticity (resulting in better casting and compaction)
- Prolonged workability maintenance in cases of high distances and high temperatures
- High reduction of water permeability
- Shrinkage and creep reduction
- High range carbonation reduction

Sika® ViscoCrete® Techno-90 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 934-2:2009+A1:2012. Declaration of Performance 85450262, and provided with the CE-mark.

PRODUCT INFORMATION

Chemical base	Aqueous solution of modified polycarboxylate polymers
Packaging	IBC, 220kg barrels, 20 kg containers Bulk supply upon request
Appearance / Colour	Liquid, 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	~ 1.07 kg/l (at +20°C)
pH-Value	3.8 – 5.8 (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.

APPLICATION INFORMATION

Recommended Dosage

0.4 – 1.6% by weight of cement

Compatibility

Sika® ViscoCrete® Techno-90 can be combined with the following Sika products:

- Sika® Plastiment® series
- Sika®-1+ / 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® Techno-90 is added to the gauging water at the plant or added on-site into the concrete mixer.

Restrictions

- When using Sika® ViscoCrete® Techno-90 a suitable mix design has been taken into account and local material sources should be trialed.
- Sika® ViscoCrete® Techno-90 should not be added to dry cement.
- Sika® ViscoCrete® Techno-90 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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