

PRODUCT DATA SHEET

Sika® ViscoCrete®-3311

New generation high-range admixture for improved rheology and slump retention

DESCRIPTION

Sika® ViscoCrete®-3311 is new generation superplasticiser with super retention technology. It contains polycarboxylate ether polymers and is specially formulated for ready-mix concrete where slump retention, high strength and durability are required in hot climates. The excellent dispersion effect makes Sika® ViscoCrete®-3311 the ideal admixture for the ready-mix concrete industry. The ability to work with low water / cement ratios and still provide extended slump retention.

USES

- High durable concrete
- Ready-mixed concrete
- Mass concrete
- Pump concrete
- Hot weather concreting
- Long distance transport concreting

CHARACTERISTICS / ADVANTAGES

- High water reduction - High early and ultimate strengths. Low permeability, high durability concrete.
- Better rheology - Ease of mixing, placing, compaction and finishing. High flowability.
- Superior slump retention - No retempering. Ease of delivery to point of placement
- Low shrinkage and creep - Improve dimensional stability. Reduced risk of cracks.
- Good cohesion - Ease of pumping. No bleeding.
- Good workability - Excellent surface appearance. Self-compacting concrete.
- Minimal bleed water - Excellent concrete quality.
- High elastic modulus - Superior load bearing capacity.
- Supplementary cementitious materials – Robustness of concrete in usage of high SCM materials such as PFA & GGBS.

PRODUCT INFORMATION

Packaging	<ul style="list-style-type: none"> ▪ 1000 L IBC tank ▪ Bulk delivery
Shelf Life	12 months from date of production
Storage Conditions	Store at a temperature above 5 °C and in tightly sealed original containers. If found to be frozen, thaw it and reconstitute by stirring.

APPLICATION INFORMATION

Recommended Dosage

Dosage of Sika® ViscoCrete®-3311 depends on the mix design, ambient conditions and degree of water reduction and workability required. MSika® ViscoCrete®-3311 is dispensed at a rate of 600 ml to 1000 ml per 100 kg of cementitious material. Other dosages may also be used depending on the specific working conditions. Sika® ViscoCrete®-3311 can be used in conjunction with other products from the Sika® Plastiment®, Sika® ViscoCrete® and SikaPlast® series resulting in reduced dosages through synergistic effects. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.

Dispensing

Sika® ViscoCrete®-3311 is a ready-to-use admixture to be added to the concrete mix as a separate component. Optimal mixing water reduction is obtained if Sika® ViscoCrete®-3311 is poured into the concrete mix right after the addition of the first 50–70 % of the mixing water. Avoid adding the admixture to the dry aggregates. A separate dispenser and feed line must be used.

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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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Sika® ViscoCrete®-3311
October 2024, Version 01.01
021301011000005848

SikaViscoCrete-3311-en-MY-(10-2024)-1-1.pdf

