

PRODUCT DATA SHEET

Sika® ViscoCrete®-4400

Workability retaining admixture for concrete

PRODUCT DESCRIPTION

Sika® ViscoCrete®-4400 is a liquid admixture for concrete based on a unique blend of polycarboxylate polymers technologies. Sika® ViscoCrete®-4400 is designed as a workability extender for concrete that require retention properties of over 3 hours.

USES

- Applications that require extended and stable consistence retention without delayed setting or reduction in early age strength
- Suitability for use across broad range of consistence classes from S2 – SF3
- High-performance concrete
- Self-compacting concrete when used in conjunction with an additional superplasticiser
- High-rise/pumped concrete
- Improved effectiveness in higher ambient temperatures

PRODUCT INFORMATION

Packaging	20 L drum & 1000 L IBC
Shelf Life	12 months from date of production if stored properly in undamaged containers.
Storage Conditions	Store in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost.
Appearance / Colour	Brown liquid
Specific gravity	1.06 kg/L
Total Chloride Ion Content	<0.1 % w/w (Chloride free)
Equivalent Sodium Oxide	<0.1 % w/w (Alkali content)

CHARACTERISTICS / ADVANTAGES

- Extended consistence retention without sacrificing strength development
- Excellent placement characteristics for longer
- Extended travel time/delivery radius
- Limited plasticising effect at lower dosage
- Enhanced workability retention in mixes containing GGBS and PFA

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-2 Table 2 DoC 73617634, certified by Factory Production Control Body 0120 and provided with the UKCA mark DoP 37647475, certified by Factory Production Control Body 1029 and provided with the CE mark

TECHNICAL INFORMATION

Effect on Setting Setting time is increased with dosage

APPLICATION INFORMATION

Recommended Dosage 0.2 % - 1.0 % bwc

Dispensing Sika® ViscoCrete®-4400 should be dispensed through suitable calibrated dosing equipment.
Sika® ViscoCrete®-4400 is added to the gauging water or added with it into the concrete mixer.

Compatibility Compatible with all cement types and Sika® admixtures, trials are recommended

VALUE BASE

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

REGULATION (EC) NO 1907/2006 - REACH

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.

APPLICATION INSTRUCTIONS

MIXING

Sika® ViscoCrete®-4400 should not be added to dry cement

APPLICATION

The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.

Fresh concrete must be cured properly and curing applied as soon as possible

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

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Product Data Sheet
Sika® ViscoCrete®-4400
November 2023, Version 01.01
021301011000004727

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.

SikaViscoCrete-4400-en-GB-(11-2023)-1-1.pdf

