

PRODUCT DATA SHEET

Sika® ViscoCrete® SKY 8705

(formerly MasterGlenium® SKY 8705)

New generation superplasticising admixture for extended slump retention

DESCRIPTION

Sika® ViscoCrete® SKY 8705 is a chloride free 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® SKY 8705 the ideal admixture for the ready-mix concrete industry. The ability to work with low water / cement ratios and still obtain extended slump retention allows for the manufacture of high-quality concrete.

USES

Sika® ViscoCrete® SKY 8705 can be used for

- concrete with less water content than with conventional admixtures
- faster mixing logistics during large jobs
- high flowability concrete
- highly durable concrete
- ready-mixed concrete
- mass concrete
- long distance transport
- pumped concrete
- hot weather concreting

PRODUCT INFORMATION

Packaging	200L PE Drum and 1000L IBC Tank
Shelf life	12 months from date of production
Storage conditions	Stored in dry conditions, protected from direct sunlight
Colour	Brown Black
Specific gravity	1.095~1.115 kg/L @ 25°C
pH-Value	7.5 ~ 9.5

FEATURES

- High water reduction - High early and ultimate strengths. Low permeability, high durability concrete.
- High flowability - Ease of placing and compaction. No segregation.
- 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.

CERTIFICATES AND TEST REPORTS

Sika® ViscoCrete® SKY 8705 complies with BS EN934 : Part 3 : 1985.

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June 2024, Version 01.01

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SYSTEM INFORMATION

Compatibility	Sika® ViscoCrete® SKY 8705 is compatible with all cements meeting recognized international standards. Sika® ViscoCrete® SKY 8705 is not compatible with Sikament® admixtures.
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APPLICATION INFORMATION

Recommended dosage	Dosage of Sika® ViscoCrete® SKY 8705 depends on the mix design, ambient conditions and degree of water reduction and workability required. Sika® ViscoCrete® SKY 8705 is dispensed at a rate of 400ml to 1,200ml per 100 kg of cementitious material. Other dosages may also be used depending on the specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.
Dispensing	Sika® ViscoCrete® SKY 8705 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® SKY 8705 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS

Overdosing will result in increased workability and setting time of the Concrete, however, provided that curing is effective, ultimate concrete strength and properties will not be affected. Use an appropriate concrete mixer and do not mix by hand. Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

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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SikaViscoCreteSKY8705-en-MM-(06-2024)-1-1.pdf

