

PRODUCT DATA SHEET

Sika® ViscoCrete® SKY 8611

(formerly MasterGlenium® SKY 8611)

Superplasticising and viscosity modifying admixture for low fines self consolidating concrete

DESCRIPTION

Sika® ViscoCrete® SKY 8611 is a polycarboxylate ether (PCE) based superplasticizer to provide low fines self-consolidating concrete for everyday use. Sika® ViscoCrete® SKY 8611 offers a quantum leap in concrete robustness allowing for flowability and stability of concrete at the same time. The self consolidating nature of low fines self-consolidating concrete requires minimal vibration making the process of concrete placement fast and effective. Sika® ViscoCrete® SKY 8611 is free of added chloride and is compatible with all cements meeting ASTM standards.

USES

- Ready-mix concrete and site mixing concrete
- Reinforced concrete and plain concrete
- Impermeable concrete
- Mass concrete
- Pumped concrete

CHARACTERISTICS / ADVANTAGES

- High water reduction - High early and ultimate strengths. Low permeability, high durability concrete.
- High flowability - Ease of placing and compaction. No segregation and bleeding.
- Superior slump retention - Easy to produce and transport, reduced retreat rate.
- Low shrinkage and creep - Improve dimensional stability. Reduced risk of shrinkage.
- Good cohesion - Ease of pump. Reduce pumping costs.
- Excellent workability - Good surface appearance.
- High elastic modulus - Superior load bearing ability.

PRODUCT INFORMATION

Packaging

- 1000 L IBC tank
- Bulk delivery

Shelf Life

12 months from date of production

Storage Conditions

Store at a temperature above 0 °C and in tightly sealed original containers. If frozen, thaw it and completely reconstitute by mild agitation. Do not use compressed air.

APPLICATION INFORMATION

Recommended Dosage

Dosage rate for Sika® ViscoCrete® SKY 8611 depends on the mix design, ambient conditions and degree of water reduction and workability required. Generally, for concrete with water/cement ratios between 0.45 and 0.55, the typical dosage is 800–1500 ml per 100 kg of cementitious materials.

Other dosages may also be used depending on specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.

Higher dosage might be needed for higher percentage of clinker replacement or less reactive cement.

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.

APPLICATION INSTRUCTIONS

APPLICATION

Sika® ViscoCrete® SKY 8611 can be added into water and wet concrete. Not recommended for direct addition into dry concrete.

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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