

PRODUCT DATA SHEET

Sika® ViscoCrete® ACE 8589

(formerly MasterGlenium® ACE 8589)

High-range superplasticiser for precast concrete

DESCRIPTION

Sika® ViscoCrete® ACE 8589 is an innovative polycarboxylic ether (PCE) based superplasticiser ideally suited for precast industry. Due to a specifically tailored formulation, this admixture shows excellent dispersion of cement at low water binder ratio. As a result, Sika® ViscoCrete® ACE 8589 provides exceptional good early strength development and maintains flowability for a considerable period of time.

The formerly unrivaled combination of early strength, slump retention and final strength development allows Sika® ViscoCrete® ACE 8589 to be considered ideally for precast application under difficult conditions.

It is formulated to comply with ASTM C494 for Type F admixtures and BS-EN 934-2:2001.

USES

Concrete with less water content than with conventional admixtures

- high flowability concrete
- highly durable concrete
- ready-mixed/precast concrete
- pumped concrete
- high early strength
- early demoulding

PRODUCT INFORMATION

Packaging

- 1000 L IBC tank
- Bulk delivery

Shelf Life

12 months from date of production

Storage Conditions

Store in a place where the temperature is not below 0 °C. In case the product freezes, increase the temperature of the product to 30 °C and re-mix.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® ACE 8589 offers the following benefits for the precast concrete industry:

- High impermeability and strength
- Improved and excellent durability
- Very high workability
- No segregation even at high workability
- Excellent concrete quality
- Produce rheoplastic and self consolidating concrete with a low w/c ratio.
- Optimize curing cycle by shortening curing time or decreasing curing temperature.
- Eliminate heat curing.
- Eliminate energy required for placing, consolidation and curing.
- Increase productivity.
- Improve surface appearance.
- Produce durable precast concrete elements.
- As compared to the traditional superplasticisers, improve engineering properties such as early and ultimate compressive and flexural strengths.

APPLICATION INFORMATION

Recommended Dosage

The normally recommended dosage rate is 0.75 to 1.5 litres per 100 kg of binder. Other dosages may be used in special cases according to specific job site conditions. In this case, please consult our sales representative.

SYSTEM INFORMATION

Compatibility

Sika® ViscoCrete® ACE 8589 is compatible and recommended for use with viscosity modifying agents to produce SCC.
Sika® ViscoCrete® ACE 8589 is not compatible with the Sikament® RB superplasticisers.

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® ACE 8589 is a liquid admixture to be added to the concrete during the mixing process. The best results are obtained when the admixture is added after all the other components are already in the mixer and after the addition of at least 80 % of the total water.

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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