

PRODUCT DATA SHEET

Sika® ViscoCrete® ACE 8363

(formerly MasterGlenium® ACE 8363)

High-range superplasticiser for precast concrete

DESCRIPTION

Sika® ViscoCrete® ACE 8363 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 and workability retention with no effect on setting time. As a result, Sika® ViscoCrete® ACE 8363 provides exceptional good early strength development. The formerly unrivalled combination of early strength and final strength development allows Sika® ViscoCrete® ACE 8363 to be considered ideally for precast application under difficult condition.

USES

Sika® ViscoCrete® ACE 8363 is suitable for work with normal to low water/cement ratios. The high water reduction, early strength and slump retention make Sika® ViscoCrete® ACE 8363 the ideal admixture for the ready-mix and precast concrete industry. The use of Sika® ViscoCrete® ACE 8363 also allows the manufacture of high performance concrete with high early (18-24 hours) and final strength.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® ACE 8363 offers the following benefits for the precast concrete industry:

- High impermeability and strength
- Improved and excellent durability
- High workability retention
- No segregation even at high workability
- Excellent concrete quality
- 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

PRODUCT INFORMATION

Chemical Base	polycarboxylic ether
Packaging	205 liter Drum, 1000 liter Bulk
Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging
Storage Conditions	Store in cool and dry conditions at temperatures above 0°C, well ventilated place away from ignition sources, heat or flame. Protect from direct sunlight
Appearance / Colour	yellowish to brown liquid
Specific gravity	1.01 - 1.05

APPLICATION INFORMATION

Recommended Dosage	The normally recommended dosage rate is 0.50 to 2.0 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 Sika representative.
Dispensing	Sika® ViscoCrete® ACE 8363 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.
Compatibility	Sika® ViscoCrete® ACE 8363 is compatible and recommended for use with: <ul style="list-style-type: none">• Viscosity Modifying Agents to produce SCC• MICRO-AIR, air entraining admixture, to improve freeze-thaw resistance Sika® ViscoCrete® ACE 8363 is not compatible with the Sikament RB and Sikament NN range of 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

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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 fields.

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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