

PRODUCT DATA SHEET

Sika® ViscoCrete®-8558 LW

(formerly MasterGlenium® ACE 8558LW)

New generation superplasticizing admixture for lightweight concrete

DESCRIPTION

Sika® ViscoCrete®-8558 LW is an innovative polycarboxylic ether (PCE) based superplasticiser specially developed and formulated for producing lightweight concrete of density less than 2200 kg/m³. Due to a specifically tailored formulation, this admixture shows excellent dispersion of cement at normal to low water binder ratio.

Sika® ViscoCrete®-8558 LW accelerates cement hydration by allowing an increased surface area of cement particle to react with water. As a result, it is possible to achieve rapid development of hydration products and as a consequence, higher strength at early age. The polymer structure of Sika® ViscoCrete®-8558 LW is specially designed to improve the rheology of lightweight concrete, making it flowable and with low viscosity, even at low water cement ratio.

Sika® ViscoCrete®-8558 LW is specially formulated for use with lightweight aggregates to achieve required concrete density and strength class. Sika® ViscoCrete®-8558 LW enables a homogenous mixture which keep the lightweight aggregates from separating from the cement paste mixture.

Sika® ViscoCrete®-8558 LW is free of chloride and is compatible with all cements meeting recognised international standards.

USES

Sika® ViscoCrete®-8558 LW is suitable for making lightweight concrete with highly workable, non-segregating concrete utilising low water cement ratios and, consequently, high early and final strengths. It is highly recommended that Sika® ViscoCrete®-8558 LW to be used in combination with Sika® Stabilizer VMA 362 for producing advanced self-compacting concrete. This will result in minimum or no compaction, faster placing thus, achieving economic, ecological and ergonomic concrete production.

Sika® ViscoCrete®-8558 LW is a liquid admixture to be added to the concrete during the mixing process. 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.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-8558 LW offers the following benefits for lightweight concrete producers:

- Improved and excellent durability
- Superior workability
- Reduced segregation & bleeding
- Excellent concrete quality
- Produce rheoplastic and self consolidating concrete
- Increased productivity
- Eliminate energy required for placing, consolidation and curing.
- Ease of use
- Superior cohesion

PRODUCT INFORMATION

Packaging	<ul style="list-style-type: none">▪ 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 5 °C.

APPLICATION INFORMATION

Recommended Dosage	0.5–2.5 litres per 100 kg of binder. Depends on the mix design, ambient conditions and degree of water reduction and workability required.
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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.

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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