

## PRODUCT DATA SHEET

# Sika® ViscoCrete® ACE 8560 LW

(formerly MasterGlenium® ACE 8560LW)

### NEW GENERATION SUPERPLASTICIZING ADMIXTURE FOR LIGHTWEIGHT CONCRETE

#### DESCRIPTION

Sika® ViscoCrete® ACE 8560 LW is an innovative polycarboxylic ether (PCE) based superplasticiser specially developed and formulated for producing lightweight concrete of density less than 2200kg/m<sup>3</sup>. Sika® ViscoCrete® ACE 8560 LW is specifically tailored for excellent dispersion of cement and workability retention at normal to low water binder ratio.

#### USES

Sika® ViscoCrete® ACE 8560 LW accelerates cement hydration by allowing an increased surface area of cement particles to react with water. As a result, it is possible to achieve rapid development of hydration products thus higher strength at early age. The polymer structure of Sika® ViscoCrete® ACE 8560 LW is specially designed to improve the rheology of lightweight concrete, making it flowable at low viscosity, even at low water cement ratio.

Sika® ViscoCrete® ACE 8560 LW is specially formulated for use with lightweight aggregates to achieve required concrete density and strength class. Sika® ViscoCrete® ACE 8560 LW enables a homogenous mixture which keep the lightweight aggregates from separating from the cement paste mixture.

Sika® ViscoCrete® ACE 8560 LW is free of chloride and is compatible with all cements meeting recognised international standards.

#### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® ACE 8560 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
- Applicable for "Structural Lightweight Concrete"

#### PRODUCT INFORMATION

##### Packaging

- 205 L drum
- 1,000 L tank

##### Shelf Life

Stored for 12 months in tightly sealed original drums

##### Storage Conditions

Stored in a place where the temperature is not below 5°C.

# APPLICATION INFORMATION

## Recommended Dosage

Dosage of Sika® ViscoCrete® ACE 8560 LW depends on mix design, ambient temperature conditions and degree of water reduction and workability required. The recommended dosage rate is 0.5 to 2.5 litres per 100 kg of binder. 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.

## 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 Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

Sika® ViscoCrete® ACE 8560 LW is suitable for making lightweight concrete with highly workable, non-segregating concrete utilizing low water cement ratios and, consequently, high early and final strengths. It is highly recommended that Sika® ViscoCrete® ACE 8560 LW to be used in combination with Sika® Stabilizer VMA 362 for producing advanced self-compacting concrete. This will result in minimal or no compaction, faster placing thus, achieving economic, ecological and ergonomic concrete production.

## MIXING

Sika® ViscoCrete® ACE 8560 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.

## 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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SikaViscoCreteACE8560LW-en-SG-(03-2024)-1-1.pdf

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March 2024, Version 01.01

02130100000002512

