

PRODUCT DATA SHEET

Sika® ViscoCrete® ACE 8522

(formerly MasterGlenium® ACE 8522)

High-range superplasticiser for precast concrete

DESCRIPTION

Sika® ViscoCrete® ACE 8522 is an advanced polycarboxylic ether (PCE) based superplasticiser developed, ideally suited for the precast industry under difficult conditions. The specifically tailored formulation of Sika® ViscoCrete® ACE 8522 shows excellent dispersion of cement at low water binder ratio. As a result, Sika® ViscoCrete® ACE 8522 provides exceptionally good early strength development and maintains workability for a considerable period of time. The product also significantly improves the final strength. Sika® ViscoCrete® ACE 8522 is formulated to comply with BS-EN 934-2:2009 and ASTM C494 for Type F admixtures.

USES

Sika® ViscoCrete® ACE 8522 is compatible and recommended for use with:

- Viscosity Modifying Agents to produce SCC.
- MasterAir, air entraining admixture, to improve freeze-thaw resistance.

Sika® ViscoCrete® ACE 8522 is not compatible with the Sika RB series superplasticisers.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete® ACE 8522 offers the following benefits for the precast concrete industry:

- High impermeability and strength
- Improve durability of precast concrete elements
- Very high workability
- Excellent concrete quality
- Produce good workable concrete reinforced with steel and/or polypropylene fibres
- Produce Rheoplastic and Self Consolidating Concrete with a low w/c ratio.
- Optimize curing cycle by shortening curing time or decreasing curing temperature.
- Eliminate energy required for placing, consolidation and heat curing
- Increase productivity
- Improve surface appearance
- As compared to the traditional superplasticisers, improve engineering properties such as early and ultimate compressive and flexural strengths.

PRODUCT INFORMATION

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| Packaging | 1000 L IBC tank |
| Shelf Life | Stored for 12 months in tightly sealed original containers. |
| Storage Conditions | Above 5 °C, if found to be frozen, thaw it and reconstitute by stirring. |

APPLICATION INFORMATION

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| Recommended Dosage | 0.6–2.0 ltr 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. |
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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.

APPLICATION INSTRUCTIONS

APPLICATION

Sika® ViscoCrete® ACE 8522 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.

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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