

PRODUCT DATA SHEET

Sika® ViscoCrete® ACE 3383

Admixture Controlled Energy Essential component of Zero Energy system. A chloride free, new generation of Poly carboxylic ether superplasticizer. In synergy with Rheodynamic concrete, it optimizes the production of precast concrete structural elements. Meets the requirements of EN 934 – 2 and ASTM C494 type A and F.

DESCRIPTION

Sika® ViscoCrete® ACE 3383 is an innovative third generation of polycarboxylic ether polymers superplasticizer. The particular molecular configuration of Sika® ViscoCrete® ACE 3383 accelerates the cement hydration. Rapid adsorption of the molecule onto the cement particles, combined with an efficient dispersion effect, exposes increased surface of the cement grains to react with water. As a result of this effect, it is possible to obtain earlier development of the heat of hydration, rapid development of the hydration products and, as a consequence, higher strengths at very early age.

USES

Sika® ViscoCrete® ACE 3383 is suitable for making precast concrete elements with Rheoplastic concrete having fluid consistence, no segregation and low water cement ratio and, consequently, high early and long-term strengths. Sika® ViscoCrete® ACE 3383 may be used in combination with Sika® ViscoCrete® admixtures for producing Rheodynamic concrete, capable of self-compaction, even in the presence of dense reinforcement, without the aid of vibration, for making precast elements.

FEATURES

Sika® ViscoCrete® ACE 3383 offers the following benefits for the precast concrete industry to:

- Produce Rheoplastic and Rheodynamic concrete having a low water cement ratio
- Optimize the curing cycles by reducing curing time or curing temperature
- Eliminate the heat curing
- Eliminate the energy required for placing and compaction and curing (ZERO ENERGY)
- Increase productivity
- Improve surface appearance
- Produce durable precast concrete elements as per EN 206-1
- As compared to the traditional superplasticizers, the engineering properties such as early and ultimate compressive and flexural strengths, bond to steel, and modulus of elasticity, shrinkage, creep, and impermeability are improved.

CERTIFICATES AND TEST REPORTS

Meets the requirements of EN 934 – 2 and ASTM C494 type A and F.

PRODUCT INFORMATION

Packaging	available in 1000 liters bulk.
Shelf life	12 months from date of production if stored properly in unopened and undamaged original sealed packaging. Protected from direct sunlight and frost.
Storage conditions	must be stored in a place where the temperature does not drop below 5°C. In case the product freezes, bring the temperature of the product to 30°C and remix.

SUSTAINABILITY INFORMATION

Energy	<p>Zero Energy System is based on a combination of the avant-garde admixture Sika® ViscoCrete® ACE 3383 and the innovative technology of Rheodynamic concrete.</p> <p>The Zero Energy System has been developed to help the precast concrete producer to rationalize his production process and save on energy costs combined with improved quality of the product and the working conditions.</p>
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APPLICATION INFORMATION

Recommended dosage	<p>The normally recommended dosage rate is 0.5 to 4.0 liters per 100 kg of the binder and any material (Fines or fillers) passing the 0.1 mm sieve used for producing Rheodynamic concrete.</p> <p>Other dosages may be used in special cases according to specific job site conditions. In this case please consult our Technical Services Department.</p>
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SYSTEM INFORMATION

Compatibility	<p>Sika® ViscoCrete® ACE 3383 is compatible and recommended for use with:</p> <ul style="list-style-type: none">▪ SikaStabilizer to modify the viscosity of SCC.▪ SikaControl AER, air entraining admixture, to improve freeze thaw resistance (exposure class XF 1 to XF4, EN 206 – 1).▪ SikaFume, silica fume, for high performance concrete and increased durability in chemical aggressive environments (exposure class XA1 to XA3, EN206 – 1).▪ SikaControl SRA for producing shrinkage compensated concrete.
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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

No special requirements must be observed while the product is used. Protection gloves and glasses are recommended. Do not eat, drink or smoke during the application. Sika® ViscoCrete® ACE 3383 is not-amenable, non-toxic or irritant and is not subject to special transport requirements.

APPLICATION INSTRUCTIONS

APPLICATION

Sika® ViscoCrete® ACE 3383 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. The water content is adjusted to obtain the desired consistence or workability.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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Product Data Sheet

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