

PRODUCT DATA SHEET

Sika® ViscoCrete®-2911 HE

High-range superplasticiser for IBS precast manufacturing

DESCRIPTION

Sika® ViscoCrete®-2911 HE is a high-performance, polycarboxylic ether (PCE) based superplasticizer specifically designed for the Industrialised Building System (IBS) precast industry, particularly for use in challenging conditions. Its formulation ensures excellent dispersion of cement particles, even at low water-binder ratios. The rapid strength development allows for quicker demolding and increased productivity in precast operations. Sika® ViscoCrete®-2911 HE significantly contributes to both initial and ultimate concrete strength.

USES

Sika® ViscoCrete®-2911 HE is a superplasticizer that offers significant advantages for precast concrete applications due to its specific properties. Sika® ViscoCrete®-2911 HE is effective in concrete mixes with varying water-to-cement ratios, making it versatile for different concrete grades. Its ability to achieve high workability with low water content is crucial for producing high-strength and durable concrete.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-2911 HE offers several significant benefits for the precast concrete industry, contributing to improved efficiency, concrete quality, and durability:

- Production of rheoplastic concrete at very low water / cement (w/c) ratio
- Optimize curing cycle by shortening curing time
- Improve surface appearance and concrete quality
- Improve durability of precast concrete elements
- Improved early and ultimate compressive and flexural strength compared to traditional superplasticizers

PRODUCT INFORMATION

Packaging	▪ 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 0 °C. In case the product freezes, increase the temperature of the product to 30 °C and re-mix.

APPLICATION INFORMATION

Recommended Dosage	The normally recommended dosage rate is 0.7 L to 1.5 L 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 sales 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®-2911 HE 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.

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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