

PRODUCT DATA SHEET

Sika® ViscoCrete®-4160 PH

Slump-retaining superplasticizing admixture for medium- to high-strength concrete mixes.

DESCRIPTION

Sika® ViscoCrete®-4160 PH is a high-performance superplasticizing admixture for medium- to high-strength concrete mixes based on modified polycarboxylate ether (PCE) technology. It provides excellent slump retention, high strength development, and improved durability, enabling the production of high-quality concrete at low water-cement ratios. It is particularly suitable for mixes with high levels of slag and fly ash, as well as challenging sand sources. Sika® ViscoCrete®-4160 PH complies with ASTM C494 Type G requirements and is compatible with all ASTM-compliant cements.

USES

Sika® ViscoCrete®-4160 PH is especially suitable for concrete used in the construction of precast and readymix elements which requires good workability and high early and ultimate strengths, such as:

- Pumpcrete design
- Structures constructed using travelling forms and slip forms
- Hot weather concreting
- In situ casting of structural element

CHARACTERISTICS / ADVANTAGES

- Long slump keeping and high water reduction
- Workability can be maintained from 3 to 10 hours (depending on admixture dosage, cement type, temperature)
- Reduces risks of retampering concrete on job site with additional water and improves the engineering properties of concrete like early and ultimate strengths

PRODUCT INFORMATION

Chemical Base	Polycarboxylate ether
Packaging	210 Liter Drum 1000 Liter Bulk
Colour	Yellowish to Brown Liquid
Shelf Life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging
Storage Conditions	Store properly in unopened and undamaged original sealed containers protected from direct sunlight & moisture at temperatures between +10°C and +35°C.
Specific gravity	1.110 - 1.21

APPLICATION INFORMATION

Recommended Dosage	Recommended dosage rate is approximately 0.5 – 1.3 litre per 100 kg of cementitious material. Dosages outside this range can be used where improved workability, increased water reduction and slump retention are required. Consult local technical for confirmation
Dispensing	Sika® ViscoCrete®-4160 PH is a ready-to-use admixture to be added to the concrete mix as a separate component. Optimal mixing water reduction is obtained if Sika® ViscoCrete®-4160 PH is poured into the concrete mix right after the addition of the mixing water. Recommended to avoid adding the admixture to the dry aggregates.

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.

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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