

PRODUCT DATA SHEET

Sika® ViscoCrete®-2199

HIGH RANGE WATER-REDUCING ADMIXTURE FOR EARLY STRENGTH CONCRETE

DESCRIPTION

Sika® ViscoCrete®-2199 is a high range water reducing admixture based on selected PCE polymers for promoting high ultimate and early strengths in both ready-mix and precast concrete.

Sika® ViscoCrete®-2199 is chloride free according to EN 934-2 (< 0.1 %) and is compatible with all types of Portland Cement including Sulphate Resistant Cement (SRC).

USES

Sika® ViscoCrete®-2199 is used as a superplasticiser in the production of free flowing concrete for:

- All precast concrete
- Slabs and foundations
- Walls, columns and piers
- Slender components with densely packed reinforcements
- Textured surface finishes

Sika® ViscoCrete®-2199 is also used as a high-range water reducing admixture for:

- High strength concrete
- High durability concrete (low w/c ratio)
- High strength and durable precast products

CHARACTERISTICS / ADVANTAGES

As a superplasticiser:

- Workability is greatly improved
- Increased placeability in slender components with packed reinforcements
- Decreases the amount of vibration
- Suitable for use in conjunction with standard plasticizers and retarders (synergized mixes)
- Significantly reduces the risk of segregation
- High early strengths for precast or early stripping

As a water-reducer:

- Water reduction up to 25 % depending on dosage*
- 28 days strength improved by up to 40 %*

* this will depend on dosage and mix design

PRODUCT INFORMATION

Composition	Modified polycarboxylate
Packaging	<ul style="list-style-type: none"> ▪ 208 L drum ▪ 1 000 L tank ▪ bulk delivery
Appearance / Colour	Brown liquid
Shelf Life	12 months from the date of production if stored in undamaged and unopened, original sealed container
Storage Conditions	Store in place protected from direct sunlight and frost, at temperatures between +5 °C and +30 °C

APPLICATION INFORMATION

Recommended Dosage

Sika® ViscoCrete®-2199 can be used at the rate of 500–2 000 ml per 100 kg of cement depending on requirements concerning workability and strength. It is recommended that trial mixes be conducted to determine the exact dosage rate required.
For more specific requirements and trials, please contact our Technical Service Department.

Dispensing

Sika® ViscoCrete®-2199 shall be dispensed neat into the premixed concrete after all the other concrete components, including total water, have been discharged into the pan-mixer or truck mixer.
Do not dilute Sika® ViscoCrete®-2199.

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.

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.

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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