

PRODUCT DATA SHEET

Sika® ViscoCrete®-190 SC

High Range Water Reducing Admixture

DESCRIPTION

Sika® ViscoCrete®-190 SC is a high range water reducer based on Sika's ViscoCrete® polycarboxylate polymer technology.

USES

Sika® ViscoCrete®-190 SC is designed for high quality shotcrete and may also be used for the production of high performance concrete and Self Compacting Concrete (SCC). Sika® ViscoCrete®-190 SC is a high range water reducer that provides excellent plasticity and slump life. It is fully compatible with the entire range of Sika® Sigunit . Sika® ViscoCrete®-190 SC can be combined with accelerating or retarding admixtures to achieve required compressive strength and setting time.

CHARACTERISTICS / ADVANTAGES

Water Reduction: Sika® ViscoCrete®-190 SC can be dosed in small amounts to obtain water reduction from 10–15 %, and will achieve water reduction up to more than 30 % at high dosage rates.

High Plasticity and neutral set. The superplasticizing action of Sika® ViscoCrete®-190 SC provides high slump, flowing concrete that maintains excellent workability with minimal set delay. The high range water reduction of Sika® ViscoCrete®-190 SC provides the following benefits in concrete:

- Ideal for the production of wet shotcrete.
- High early compressive strength for earlier removal of forms and structural use of concrete.
- High ultimate strength allow for greater engineering design flexibility and structural economies.
- Reduced water cement ratios produce more durable, denser concrete with reduced permeability.
- Sika® ViscoCrete®-190 SC has been formulated to provide maximum water reduction, increased early strength, improved durability.

APPROVALS / CERTIFICATES

Sika® ViscoCrete®-190 SC meets the requirements for AS1478 HWR type.

PRODUCT INFORMATION

Packaging	Bulk deliveries 1000 litre IBC 10 litre drum
Shelf life	12 months if stored as directed
Storage conditions	Store at temperature between 5°and 35 ° C, protected from direct sunlight and frost.
Appearance and colour	Liquid, clear brown
Specific gravity	1.06 litre/kg approx.

APPLICATION INFORMATION

Recommended dosage	Dosage rates will vary according to materials used, ambient conditions and the requirements of a specific project. Sika recommends dosage at 300–1000 ml/100 kg of cementitious for general concrete applications. If maximum water reduction is required, dosage up 1500 ml/100 kg of cementitious may be used. In Shotcrete the typical dosage ranges between 750 ml and 1500 ml/100kg of cementitious materials. Dosage rates outside the recommended range may be used where specialized materials such as microsilica are specified, extreme ambient conditions are encountered or unusual project conditions require special consideration. Please contact your Sika representative for more information and assistance.
Dispensing	Dry batching plant. Dose Sika® ViscoCrete®-190 SC with 80% of the mixing water then load all the remaining components, mix thoroughly for a minimum time of 60 seconds per cubic meter. Add the remaining 20% of batching water then. Wet batching plant Sika® ViscoCrete®-190 SC may also be dispensed as an integral material during the regular admixture batching cycle of the concrete mixer. Do not add it to a dry mix
Compatibility	Sika® ViscoCrete®-190 SC is compatible with most of the Sika admixtures with the exception of Sikament® NN.

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.

FURTHER INFORMATION

Do not use in conjunction with naphthalene based admixtures.
May slightly increase air content of concrete at normal dose.

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.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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