

PRODUCT DATA SHEET

Sika® ViscoCrete®-19 S

HIGH RANGE WATER REDUCING ADMIXTURE

DESCRIPTION

Sika® ViscoCrete®-19 S is a high range water reducer based on Sika's ViscoCrete® polycarboxylate polymer technology.

USES

Sika® ViscoCrete®-19 S 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®-19 S 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®-19 S can be combined with accelerating or retarding admixtures to achieve required compressive strength and setting time.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-19 S can be dosed in small amounts to obtain water reduction from 10–15 % . It can achieve water reduction up to more than 30 % at high dosage rates.

High Plasticity and neutral set: the superplasticizing action of Sika® ViscoCrete®-19 S provides high slump, flowing concrete that maintains excellent workability with minimal set delay.

The high range water reduction of Sika® ViscoCrete®-19 S 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®-19 S has been formulated to provide maximum water reduction, increased early strength, improved durability.

APPROVALS / CERTIFICATES

Sika® ViscoCrete®-19 S complies with AS1478.1-2000, type HWR.

PRODUCT INFORMATION

Composition	Aqueous solution of modified polymers
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, light brown
Density	1.06 kg/l approximately
Recommended dosage	<p>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 total cementitious for general concrete applications. In shotcrete, typical dosage ranges between 500 ml and 1500 ml/100kg of total cementitious materials.</p> <p>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.</p> <p>Please contact your Sika representative for more information and assistance.</p>
Compatibility	Sika® ViscoCrete®-19 S is compatible with all Sika Concrete admixtures except 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.

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.

Sika Australia Pty Limited
 ABN 12 001 342 329
 aus.sika.com
 Tel: 1300 22 33 48

Product Data Sheet
 Sika® ViscoCrete®-19 S
 April 2023, Version 01.02
 021301011000004254

SikaViscoCrete-19S-en-AU-(04-2023)-1-2.pdf