

PRODUCT DATA SHEET

Sika® ViscoCrete®-3579

HIGH RANGE WATER REDUCING CONCRETE ADMIXTURE.

DESCRIPTION

Sika® ViscoCrete®-3579 is a 3rd generation polymer based high performance superplasticizer for producing soft consistency high grade concrete.

Sika® ViscoCrete®-3579 meets the requirements of ASTM C494 Type G.

USES

Sika® ViscoCrete®-3579 is mainly suitable for the manufacture of concrete for ready-mix concrete and precast batching plants.

Sika® ViscoCrete®-3579 excels by its extremely high water reduction capacity, providing good flow ability while retaining optimal cohesion of the mix.

Sika® ViscoCrete®-3579 is used for the following types of concrete:

- High-strength/ high performance cast on site concrete.
- High early strength for concrete shafts.
- Bridges and cantilever.
- Slender components with dense reinforcement.

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-3579 combines different modes of actions. By adsorption on the surface of the fines and keeping them apart while the hydration is in progress, Sika® ViscoCrete®-3579 effects the following concrete properties:

- Extremely high water reduction.
- Producing very soft consistency and suitable for long distance pumping.
- High flowability (considerably reduced placing and compacting work).
- Workability can be maintained up to 120 minutes or longer (still depends on admixture dosage, cement type, temperature).
- Highly improved waterproofness.
- Improved creep and shrinkage resistance characteristics.

PRODUCT INFORMATION

Chemical base	Modified Poly carboxylate in water.
Packaging	200/1000 litres.
Appearance / Colour	Liquid/ brown colour.
Shelf life	12 months if stored properly in original unopened packaging.
Storage conditions	Stored in dry conditions, protected from direct sunlight and at temperatures between +10°C and +40°C.
Density	1.081 – 1.101 kg/L (20 °C).

TECHNICAL INFORMATION

Concreting Guidance

Concrete placing: With the use of Sika® ViscoCrete®-3579, concrete of highest quality is being produced, however state of the art concrete tech-

nology, such as mixing, placing vibrating and curing must be respected and applied.

Curing: Effective measures for concrete curing must be followed.

APPLICATION INFORMATION

Recommended Dosage	0.7 – 2.5 ltr per 100 kgs of cement/binder. Typical 1.0 to 1.6 ltr per 100 kgs of cement/binder.
Compatibility	Sika® ViscoCrete®-3579 may be combined with all Sikament, Sika® Aer, Sika® Pump, Sikacrete® PP1 products, but must be added separately to the mix and not pre-mixed prior its addition. Sika® ViscoCrete®-3579 is compatible with all Portland Cement types.

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.

IMPORTANT CONSIDERATION

Overdosing will result in increased workability and setting time of the Concrete, however, provided that curing is effective, ultimate concrete strength and properties will not be affected.

Accurate dispensing equipment can be supplied by Sika Limited (Vietnam).

Use an appropriate concrete mixer and do not mix by hand.

Trial mixes are recommended to establish exact dosage rates required to suit individual requirements. Please contact Sika Technical Department for further assistance.

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

DISPENSING

Sika® ViscoCrete®-3579 is added to the gauging water prior to its addition to the dry mix or added separately to the wetted concrete mix.

For optimum utilization of the ultra-high range water reducer we recommend a minimum wet mixing time of 60 seconds.

When adding the balance of the batching water to adjust concrete consistency this should be done after a minimum of 2/3 of the wet mixing time to avoid surplus water in the concrete.

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 can always refer to the most recent version of the local Product Data Sheet for the relevant product, available on our website. The information in any downloaded version is valid as of the time of download.

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Product Data Sheet

Sika® ViscoCrete®-3579

April 2026, Version 01.01

021301011000263669

SikaViscoCrete-3579-en-VN-(04-2026)-1-1.pdf