

PRODUCT DATA SHEET

Sika® ViscoCrete®-151

HIGH PERFORMANCE CONCRETE SUPERPLASTICISER

DESCRIPTION

Sika® ViscoCrete®-151 is a high performance concrete superplasticiser based on a blend of 3rd generation PCE polymers. Sika® ViscoCrete®-151 meets the requirements of ASTM C494 Type G.

USES

Sika® ViscoCrete®-151 is suitable for use in the manufacture of concrete for both RMC and precast applications.

Sika® ViscoCrete®-151 can be used for the following types of concrete:

- Precast
 - Spun piles
 - Square pile
 - Hollow core precast
- Bridges and cantilever
- Slender components with dense reinforcement
- Slabs, columns and walls

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-151 imparts the following concrete properties:

- High fluidity (reduced effort in placing and compacting work)
- Improved creep and shrinkage resistance characteristics

Sika® ViscoCrete®-151 contains no chlorides or other corrosion-inducing substances and can therefore be used without any restrictions for reinforced concrete structures.

PRODUCT INFORMATION

Chemical base	Blend of modified polycarboxylates in water
Packaging	25 / 200 / 1000 L
Appearance / Colour	Liquid / light 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 +5 °C and +30 °C.
Density	1.075–1.095 kg/l
pH-Value	4.00–6.00

TECHNICAL INFORMATION

Concreting Guidance

Concrete placing: With the use of Sika® ViscoCrete®-151, concrete of highest quality is being produced, however state of the art Concrete technology, such as mixing, placing vibrating and curing must be respected and applied.

Curing: Effective measures for concrete curing must be followed

Specific Advice

Sika® ViscoCrete®-151 is added to the mixing water prior to its addition to the dry mix or added separately to the wetted concrete mix.

For optimum dispersion, we recommend a minimum 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.

APPLICATION INFORMATION

Recommended Dosage

0.8–2.0 L per 100 kg of cement

Typical 1.0–1.6 L per 100 kg

Compatibility

Sika® ViscoCrete®-151 may be combined with all Sikament®, Sika® Aer, Sika® Pump, Sikacrete® PP-1 products, but must be added separately to the mix and not pre-mixed prior its addition. Sika® ViscoCrete®-151 is compatible with all Portland Cement types.

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.

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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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.

Protective measures: Avoid prolonged contact with skin. Wash off thoroughly with soap water.

In case of contact with eyes or mouth, rinse immediately with clean warm water and seek medical attention without delay.

Avoid contact with food stuff and utensils.

Ecology/ Waste disposal: Do not dispose of into water or soil, but according to local regulations

Transportation class: Non-hazardous

Toxicity: Non-toxic

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 Limited (Vietnam)
Nhon Trach 1 Industrial Zone,
Nhon Trach Dist., Dong Nai Province,
Tel: (84-251) 3560 700
Fax: (84-251) 3560 699
sikavietnam@vn.sika.com
vnm.sika.com



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