

## PRODUCT DATA SHEET

# Sika® ViscoCrete®-1151

PCE BASED SUPERPLASTICIZING AND SET RETARDING CONCRETE ADMIXTURE.

### DESCRIPTION

Sika® ViscoCrete®-1151 is a 3rd generation polymer based high performance superplasticizer for producing soft consistency concrete without segregation. Sika® ViscoCrete®-1151 has no chloride content and meets the requirements of ASTM C 494 Type G.

### USES

Sika® ViscoCrete®-1151 is mainly suitable for the manufacture of concrete for RMC plants and site batch concrete.

Sika® ViscoCrete®-1151 is used for the following types of concrete:

- Self compacting concrete.
- Waterproofing concrete.
- Ground and suspended slabs.
- Huge foundation.
- Columns and walls.
- Long distance pumping concrete.

### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-1151 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®-1151 effects the following concrete properties:

- Improve mortar phase when using coarse sand.
- Long slump keeping and high water reduction.
- High flowability (considerably reduced placing and compacting work).
- Faster evolution of early strength development.
- Consistency concrete without segregation.
- Improved creep and shrinkage resistance characteristics.
- When used at higher dosages, Sika® ViscoCrete®-1151 can give extended working time.

### PRODUCT INFORMATION

Chemical base	Blend of modified polycarboxylates in water
Packaging	200/1000 litres.
Appearance / Colour	Liquid/ Transparent to yellow.
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	1.060-1.100 (kg/L, 20°C).

### TECHNICAL INFORMATION

#### Concreting Guidance

**Concrete placing:** With the use of Sika® ViscoCrete®-1151, 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.

## APPLICATION INFORMATION

<b>Recommended Dosage</b>	0.5 - 2.0 ltr per 100 kgs of cement/binder. Typical 0.8 to 1.8 ltr/100 kgs of cement/binder.
<b>Compatibility</b>	Sika® ViscoCrete®-1151 may be combined with all Sikament®, Sika® Aer, SikaPlast®, Sika®Pump, Sikacrete® PP1 products, but must be added separately to the mix and not pre-mixed prior its addition. Sika® ViscoCrete®-1151 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®-1151 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

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