

PRODUCT DATA SHEET

Sika® ViscoCrete®-300 Tempo

HIGH RANGE WATER REDUCING ADMIXTURE

DESCRIPTION

Sika® ViscoCrete®-Tempo 300 is a 3rd generation polymer based high performance superplasticizer for producing soft consistency high grade concrete. Sika® ViscoCrete®-Tempo 300 meets the requirements of ASTM C 494 Type G.

USES

Sika® ViscoCrete®-Tempo 300 is mainly suitable for the manufacture of concrete for RMC and precast batching plants.

Sika® ViscoCrete®-Tempo 300 excels by its extremely high water reduction capacity, providing good flow ability while retaining optimal cohesion of the mix. Sika® ViscoCrete®-Tempo 300 is used for the following types of concrete:

- High-strength / high performance cast on site concrete
- High strength bored piles
- Bridges and cantilever
- Slender components with dense reinforcement

FEATURES

Sika® ViscoCrete®-Tempo 300 combines different modes of actions. By adsorption on the surface of the fine cement grains and keeping them apart while the hydration is in progress, Sika® ViscoCrete®-Tempo 300 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 (still depends on admixture dosage, cement type temperature)

- Highly improved waterproofness
- Improved creep and shrinkage resistance characteristics
- Sika® ViscoCrete®-Tempo 300 contains neither chlorides nor other corrosion-inducing substances and can therefore be used without any restrictions for reinforced and prestressed concrete structures.

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PRODUCT INFORMATION

Composition	PCE
Packaging	1000L IBC
Colour	Light brownish
Shelf life	12 months from the date of production 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	1.07 ± 0.01
pH-Value	3.50 ± 1
Concreting guidance	Concrete placing: With the use of Sika® ViscoCrete®-Tempo 300, 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. Use of Sika curing compounds is advisable. Sika® ViscoCrete®-Tempo 300, is suitable for concrete to be steam cured.
Recommended dosage	0.7–2.5 L per 100 kg of cement/cementitious (Range) 1.1–1.6 L per 100 kg of cement/cementitious (Typical)
Compatibility	Sika® ViscoCrete®-Tempo 300 may be combined with all Sikament®, and Sika® Aer products, but must be added separately to the mix and not pre-mixed prior its addition. Sika® ViscoCrete®-Tempo 300 is compatible with all cement types.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

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.

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

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.

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