

PRODUCT DATA SHEET

Sika® ViscoCrete®-653 TH

High Range Water-Reducing Concrete Admixture

DESCRIPTION

Sika® ViscoCrete®-653 TH is a highly effective water reducing agent or superplasticizer based on polycarboxylate ether (PCE) technology to meet the requirement of high-range water reduction, set retardation, and good slump retention.

USES

Sika® ViscoCrete®-653 TH is a water-reducer or superplasticizer for many concrete applications, including:

- Foundations;
- Beams and columns;
- Floor slabs and walls;
- Bridges and pavements;
- Pre-stressed concrete;
- Others concrete structures.

FEATURES

Sika® ViscoCrete®-653 TH provides the following properties:

- Substantial improvement in workability without increased water and the risk of segregation;
- High-range water reduction, resulting in high density, high compressive strength, and reduced permeability;
- Good slump retention and set retardation, allowing the longer period of concrete placing and compaction;
- Enhanced surface finish of concrete;
- Up to 35% water reduction;
- Increased 28-day compressive strength;
- Increased watertightness of concrete.

CERTIFICATES AND TEST REPORTS

Complies with ASTM C 494 Type G

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates
Packaging	200 l / drum 1,000 l / tote or bulk
Appearance and colour	Light Brown Liquid
Shelf life	12 months from the date of production if it is stored properly in undamaged, original, sealed packaging
Storage conditions	Stored at temperatures between +5°C and +35°C. Protect from frost, direct sunlight, and contamination.
Density	1.060 - 1.080 g/cm ³ (25 °C (77 °F))
pH-Value	3.5 - 5.5 (25 °C (77 °F))

APPLICATION INFORMATION

Recommended dosage	Typical dosage rates of Sika® ViscoCrete®-653 TH are 600 - 3,000 cc per 100 kg of cement by weight. Exact dosage rates are dependent on the type of effect sought, quality of cement and aggregates, water-to-cementitious ratio, and ambient temperature. Therefore, in many cases, it is advisable to carry out trial mixes. Sika® ViscoCrete®-653 TH is compatible with all types of Portland Cement, including S.R.C type and Hydraulic Cement.
Dispensing	Sika® ViscoCrete®-653 TH can be added separately to the freshly mixed concrete or directly to the mixing water prior to its addition to the aggregates. When added separately to the freshly mixed concrete, further mixing should take place for at least one minute per cubic meter.

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 CONSIDERATIONS

Accidental overdosing of Sika® ViscoCrete®-653 TH may cause segregation. In this case, it is advisable to prolong mixing time until concrete become normal.

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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