

## PRODUCT DATA SHEET

# Sika® ViscoCrete®-810 HE

### High Performance Superplasticizing Admixture

#### DESCRIPTION

A Superplasticizer for concrete and mortar. It imparts very high workability to the concrete, allows a large reduction in concrete water content and gives high early strength to the concrete.

#### USES

Sika® ViscoCrete®-810 HE a superplasticizer for free flowing concrete in floors, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural elements.

Sika® ViscoCrete®-810 HE is mainly used for the following types of concrete:

- High performance concrete
- High early strength concrete
- Ready mixed concrete
- Self compacting concrete
- Precast concrete
- Prestressed concrete
- Pumped concrete

#### PRODUCT INFORMATION

<b>Chemical base</b>	Polycarboxylate Ether
<b>Packaging</b>	255 kg drums /Bulk supply
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
<b>Appearance / Colour</b>	Light Brown Liquid
<b>Density</b>	~1.08 kg/l at 25°C
<b>pH-value</b>	≥ 6

#### CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-810 HE produces a more uniformly cohesive high quality free flowing concrete.

Sika® ViscoCrete®-810 HE will result in the following advantages of concrete:

- Improved dispersion properties
- Very high water reduction
- Improved strength and density
- Improved durability
- Improved cohesion properties
- Improved rheology
- Improved flowability
- Reduced drying shrinkage

#### APPROVALS / STANDARDS

IS 9103, ASTM C494

# APPLICATION INFORMATION

<b>Recommended Dosage</b>	Optimum dosage of Sika® ViscoCrete®-810 HE should be determined by site trials. Recommended dosage: 0.2% – 2.0% by weight of cementitious. A higher dosage might be used if agreed by client, consultant. Stir well before use.
<b>Dispensing</b>	Sika® ViscoCrete®-810 HE can be added into the mixing water or directly into the concrete mixer after 50% – 70% of the mixing water has been added. The addition of Sika® ViscoCrete®-810 HE to dry aggregate or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which is depending on the mixing conditions and the mixer performance, of 60 seconds is recommended.
<b>Compatibility</b>	Sika® ViscoCrete®-810 HE may be combined with many other Sika® Products. It is compatible with all types of ordinary Portland cement, PPC, PSC and cement replacement materials. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

## 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

Excessive water addition or overdosing may cause bleeding or segregation.  
If frozen and / or if precipitation has occurred, Sika® ViscoCrete®-810 HE may be used after thawing slowly at room temperature and after intensive mixing.

## 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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## MAINTENANCE

### CLEANING

Clean all tools and application equipment with water immediately after use.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

## 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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