

PRODUCT DATA SHEET

Sika® ViscoCrete®-2002 HE AHC 1

High Performance Superplasticizing Admixture

DESCRIPTION

Imparts very high workability, allows a large reduction in water content and gives high early strength.

USES

Sika® ViscoCrete®-2002 HE AHC 1 a superplasticizer for free flowing concrete in floors, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural elements.

Sika® ViscoCrete®-2002 HE AHC 1 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

Chemical base	Polycarboxylate Ether
Packaging	230/255 kg drums /Bulk supply
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Store in dry conditions at temperatures between +10°C and +40°C. Protect from direct sunlight and frost.
Appearance / Colour	Brown Liquid
Density	~1.06 kg/l at 25°C
pH-value	≥ 6

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-2002 HE AHC 1 produces a more uniformly cohesive high quality free flowing concrete Sika® ViscoCrete®-2002 HE AHC 1 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

Recommended Dosage	Optimum dosage of Sika® ViscoCrete®-2002 HE AHC 1 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.
Dispensing	Sika® ViscoCrete®-2002 HE AHC 1 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®-2002 HE AHC 1 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.
Compatibility	Sika® ViscoCrete®-2002 HE AHC 1 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

When using Sika® ViscoCrete®-2002 HE AHC 1 a suitable mix design has to be taken into account and local material sources shall be trialled.
Excessive water addition, overdosing, changes in aggregates properties, cement properties, cementitious materials properties may cause bleeding, segregation issue, workability or setting issues.

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.

Sika India Pvt. Ltd.
620, Diamond Harbour Road
Commercial Complex II
Kolkata - 700 034
West Bengal, India

Contact:
Phone: +91 33 2447 2448
Fax: +91 33 2397 8688
info.india@in.sika.com
www.sika.in

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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