

PRODUCT DATA SHEET

Sika® ViscoCrete®-3006 ES

HIGH PERFORMANCE SUPERPLASTICIZING ADMIXTURE

DESCRIPTION

Sika® ViscoCrete®-3006 ES Imparts very high workability, improved workability retention, allows a large reduction in water content and helps in development of high early strength.

USES

Sika® ViscoCrete®-3006 ES a superplasticizer for free flowing concrete in floors, slabs, foundations, slender components with dense reinforcement, walls and columns and other structural elements.

Sika® ViscoCrete®-3006 ES is mainly used for the following types of concrete:

- High performance concrete
- High Early strength concrete
- Ready mixed concrete
- Self compacting concrete
- Precast concrete
- Pre stressed concrete
- Pumped concrete

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-3006 ES produces a more uniformly cohesive high quality free flowing concrete

Sika® ViscoCrete®-3006 ES will result in the following advantages of concrete:

- Improved dispersion properties
- Very High Early strength
- Improved durability
- Improved cohesion properties
- Improved rheology
- Improved flowability
- Reduced drying shrinkage
- Improved workability retention
- Water reduction up to 25-35 % depending on dosage*
- 28 days strength improved by up to 40 %*

* This will depend on dosage and mix design

APPROVALS / CERTIFICATES

IS 9103, ASTM C494 Type C,E & F

PRODUCT INFORMATION

Composition	Aqueous solution of modified poly carboxylate
Packaging	230 kg HDPE carboy
Appearance / Colour	Light Brown Liquid
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.
Density	~1.10 kg/l at 25°C
pH-Value	≥ 6

APPLICATION INFORMATION

Recommended Dosage

Standard dosage will vary from 0.5% to 1.5% by weight of cement. Exact dosage rates are dependent on the quality of cement, aggregates, water/cement ratio and ambient temperature. Therefore, in many cases it is advisable to carry out trial mixes. Higher dosage may be used if agreed by engineer and consultant. Stir well before use.

Compatibility

Sika® ViscoCrete®-3006 ES may be combined with many other Sika® Products. Compatible with all types of cements and cementitious materials. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information about specific combinations.

APPLICATION INSTRUCTIONS

DISPENSING

Sika® ViscoCrete®-3006 ES 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®-3006 ES 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.

FURTHER INFORMATION

Excessive water addition or overdosing may cause bleeding or segregation. If frozen and / or if precipitation has occurred, Sika® ViscoCrete®-3006 ES may be used after thawing slowly at room temperature and after intensive mixing.

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.

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.

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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.

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.