

PRODUCT DATA SHEET

Sika® ViscoCrete®-3003 Ease

(formerly MasterEase® 3003)

LOW VISCOSITY CONCRETE CONCEPT - NEW SUPERPLASTICIZER TECHNOLOGY IMPARTS ADVANCED RHEOLOGICAL PROPERTIES DELIVERING A SIGNIFICANT DECREASE IN THE VISCOSITY OF CONCRETES AND EXTENDED RHEOLOGY MAINTENANCE

DESCRIPTION

The Sika® ViscoCrete®-3003 Ease is a superplasticizer, high range water reducer. The Sika® ViscoCrete®-3003 Ease is designed to impart exceptional rheological properties to fresh concrete. It improves considerably the placing and finishing of concretes and enhances the pumping of concrete plants for all construction activities.

USES

The Sika® ViscoCrete®-3003 Ease delivers many advantages both in the fresh concrete and hardened concrete.

At fresh state, optimizing the rheology:

Decrease in the viscosity of concretes at constant W/C

Reduction possible to the W/C ratio without affecting the viscosity of concretes.

- New windows for technical and economic optimization of concrete mix designs (addition and types of binder, choice of aggregates)
- High strength and resistance to segregation
- Workability retention over 120 minutes without retardation.
- Good compatibility with all types of cement and mineral additions.

In the cured state, improvement of sustainability

- I. Excellent early and late compressive strength
- II. Improvement of quality of surface finishes
- III. As part of a reduction of W/C
 - Increased mechanical resistances
 - Decreased porosity and permeability
 - Decreased shrinkage and cracking
 - Enhanced durability

CHARACTERISTICS / ADVANTAGES

The Sika® ViscoCrete®-3003 Ease is recommended for the production of self-compacting concrete requiring low viscosity, long workability retention and high compressive strength. It imparts additional benefit of robustness to the addition of water or the variation of moisture content of aggregates thus reducing the likelihood of segregation to the SCC mixes.

The Sika® ViscoCrete®-3003 Ease is specially formulated for the concrete industry. It is also suitable for applications in the general Civil and building sites. It can be used for the realization and achievement of the following:

- Concrete complying to EN 206-1 / CN
- Precast and Site Mix concretes
- Superior Concrete pumping
- Reduction of Concrete waste
- Ease of compacting and finishing concrete
- High performance and ultra-high strength concrete
- Concrete for low environmental impact and high in mineral additions
- Architectural concrete

PRODUCT INFORMATION

Product Declaration	The Sika® ViscoCrete®-3003 Ease is based on an innovative polymer chemistry. Its action differs from traditional superplasticizers, to the extent that the adsorption of polymers of Sika® ViscoCrete®-3003 Ease on binder particles is provided by a flexible chemical bond which does not impede the flow of concretes. This innovation significantly improves rheological behaviour of concretes treated by Sika® ViscoCrete®-3003 Ease, they have a low yield stress, low viscosity with additional feature of long workability retention.
Packaging	<ul style="list-style-type: none">▪ 205 L drum▪ 1,000 L tank
Shelf Life	12 month shelf life from date of manufacture
Storage Conditions	Original packaging above > 5°C
Viscosity	Plastic viscosities of concrete S4 has a W/C 0.45, at T ₀ and T ₁₂₀ (Viscosity by Rheometer)

APPLICATION INFORMATION

Recommended Dosage	400 ml to 1500 ml per 100 kg cement. Other dosages can also be used depending on the specific working conditions.
Dispensing	The optimal effect is generally achieved by dosing Sika® ViscoCrete®-3003 Ease in the concrete mix after addition 70% of water in the mixer.

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.

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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