

PRODUCT DATA SHEET

Sika® ViscoCrete®-3003 Ease MY

(formerly MasterEase® 3003 (MY))

High range water reducer

DESCRIPTION

Sika® ViscoCrete®-3003 Ease MY is an innovative superplasticizer, high range water reducer, 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

Sika® ViscoCrete®-3003 Ease MY 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.

Sika® ViscoCrete®-3003 Ease MY 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

Packaging	<ul style="list-style-type: none"> ▪ 1000 L IBC tank ▪ Bulk delivery
Shelf Life	12 months from date of production
Storage Conditions	Store in original packaging above 5 °C

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-3003 Ease MY delivers many advantages in the fresh concrete on hardened concrete.

At fresh state, optimizing the rheology

- Decrease in the viscosity of concretes at constant W/C
 - Improvement of the implementation of concretes
 - Improved pumping (lower pressure and longer distance)
 - Better response to vibration
 - Greater Ease of Pumping
 - Superior finishing, floating and smoothing operations
 - Excellent flexibility, mobility and flow of self-compacting concrete.
- 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
 - Good compatibility with all types of cement and mineral additions.

In the cured state, improvement of sustainability

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

Product Declaration

The Sika® ViscoCrete®-3003 Ease MY 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 MY 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 MY, they have a low yield stress, low viscosity.

Viscosity

Plastic viscosities of concrete S4 has a W/C 0.45, at T₀ and T₁₂₀
(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.
Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.

Dispensing

The optimal effect is generally achieved by dosing Sika® ViscoCrete®-3003 Ease MY 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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

APPLICATION

The optimal effect is generally achieved by dosing Sika® ViscoCrete®-3003 Ease MY in the concrete mix after addition 70 % of water in the mixer. However, it is possible to dose Sika® ViscoCrete®-3003 Ease MY on aggregates directly.

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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Product Data Sheet

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