

PRODUCT DATA SHEET

Sika® ViscoCrete®-3093 Ease

(formerly MasterEase® 3093)

Superplasticizer for producing Low Viscosity Concrete

DESCRIPTION

Sika ViscoCrete-3093 Ease is a superplasticizing high range water reducing admixture. Sika ViscoCrete-3093 Ease is designed to impart exceptional rheological properties to fresh concrete giving improvements to concrete placing and finishing with enhanced pumping.

USES

Sika ViscoCrete-3093 Ease is recommended for the production of high slump and self-compacting concrete, requiring low viscosity, long workability retention and high compressive strength.

Sika ViscoCrete-3093 Ease is specially formulated for the concrete industry for general and speciality applications on civil and building construction sites.

It can be used to achieve 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 of concrete
- High performance and ultra-high strength concrete
- Concrete for low environmental impact and high in mineral additions
- Architectural concrete

FEATURES

Sika ViscoCrete-3093 Ease delivers many advantages to both fresh and hardened concrete.

Fresh state, optimizing rheology:

Decrease concrete plastic viscosity at constant W/C

- Improved easier pumping (lower pressure and longer distance)
- Better response to vibration
- Superior finishing, and smoothing operations
- Excellent flexibility, mobility, and flow of self-compacting concrete.

Reduction to W/C ratio without affecting the plastic viscosity of concrete.

- New areas for technical and economic optimization of concrete mix designs (addition of types of binder SCM, 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 - Fly Ash, Silica Fume, GGBS.

In the hardened state, improving sustainability:

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

CERTIFICATES AND TEST REPORTS

Complies with ASTM C 494 Type F and G

PRODUCT INFORMATION

Packaging	1,000 l / IBC
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Shelf life	12 months from the date of production If stored properly in undamaged, original, sealed packaging.
Storage conditions	Store in dry conditions, protected from direct sunlight at temperature between 5°C and 40°C.
Appearance and colour	Yellowish to Light Brown liquid
Density	1.040-1.080 kg/L @ 25°C
pH-Value	5.0 - 7.0

APPLICATION INFORMATION

Recommended dosage	<p>Recommended range: 400ml to 2000ml per 100kg cementitious.</p> <p>The optimal effect is generally achieved by dosing Sika Viscocrete-3093 Ease in the concrete mix after addition 70% of water in the mixer. However, it is possible to dose Sika Viscocrete-3093 Ease on aggregates directly.</p> <p>For other uses, please contact Sika representative. To use in synergy and combination with another Sika's product range.</p>
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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 Material Safety Data Sheet 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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