

PRODUCT DATA SHEET

Sika® ViscoCrete®-5052 Ease

(formerly MasterEase® 5052)

Low Viscosity Concrete Concept

DESCRIPTION

Sika® ViscoCrete®-5052 Ease is a superplasticizer, high range water reducer designed to impart exceptional rheological properties to fresh concrete. It improves considerably the placing and finishing of concrete and enhances the pumping of concrete plants for all construction activities.

USES

Sika® ViscoCrete®-5052 Ease is recommended to produce self-compacting concrete requiring low viscosity, long workability retention and high compressive strength.

Sika® ViscoCrete®-5052 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:

- Precast and Site Mix concrete
- 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

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-5052 Ease delivers many advantages in the fresh concrete on hardened concrete. At fresh state, optimizing the rheology:

Decrease in the viscosity of concrete at constant W/C
Improvement of the implementation of concrete

- 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 concrete.

- 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

- 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 INFORMATION

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| Chemical Base | modified polycarboxylate ether |
| Packaging | 205 liter Drum, 1000 liter Bulk |

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| Shelf Life | 12 months from date of production if stored properly in undamaged unopened, original sealed packaging. |
| Storage Conditions | Store in cool and dry conditions at temperatures above +5°C, well ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. |
| Colour | Yellowish to Brown Liquid |
| Specific gravity | 1.00 - 1.12 |

APPLICATION INFORMATION

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| Recommended Dosage | Recommended range: 400 ml to 2000 ml per 100 kg of cementitious material. For other uses, please contact your local Sika representative. To use in synergy and combination with another Sika product range, please consult your local Sika Representative. |
| Dispensing | The optimal effect is generally achieved by dosing Sika® ViscoCrete®-5052 Ease in the concrete mix after addition of 70% of water in the mixer. However, it is possible to dose Sika® ViscoCrete®-5052 Ease on aggregates directly. |

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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