

PRODUCT DATA SHEET

Sika® ViscoCrete®-3515 Ease

(formerly MasterEase® 3515)

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

Sika® ViscoCrete®-3515 Ease is a superplasticizer, high range water reducer from recent research work of R & D laboratories of Sika. Sika® ViscoCrete®-3515 Ease is designed to impart exceptional rheological properties to fresh concrete. It improves considerably the placing and finishing of concretes and enhances the ease of concrete pumping for all construction activities.

INNOVATION

Sika® ViscoCrete®-3515 Ease is based on an innovative polymer chemistry and it is patented by Sika. Its action differs from traditional superplasticizers, to the extent that the adsorption of polymers of Sika® ViscoCrete®-3515 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®-3515 Ease, they have a low yield stress, low viscosity with additional feature of long workability retention

LOW VISCOSITY CONCRETE

Low Viscosity Concrete is an innovative concept dedicated to the viscosity (rheology) of concretes. It is based on the use of Sika polymer with dedicated technical services of Sika. This concept not only allows the achievement of a significant reduction in concrete viscosity but also optimizing the performance of concrete.

USES

Sika® ViscoCrete®-3515 Ease is recommended for the production of self-compacting concrete requiring low viscosity, long workability retention and high compressive strength.

Sika® ViscoCrete®-3515 Ease is specially formulated for the concrete industry. It is also suitable for applica-

tions 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

CHARACTERISTICS / ADVANTAGES

Sika® ViscoCrete®-3515 Ease delivers many advantages both 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
- Workability retention over 120 minutes without retardation.
- Compatible with all types of cements and mineral addition

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

APPROVALS / STANDARDS

IS 9103, ASTM C494 Type G

PRODUCT INFORMATION

Packaging	245kg
Shelf life	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.
Storage conditions	Sika® ViscoCrete®-3515 Ease must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult your local Sika representative.
Appearance / Colour	Light to dark reddish brown liquid
Density	1.07 ± 0.02 @ 25°C
pH-value	≥ 6

APPLICATION INFORMATION

Recommended Dosage	Recommended range: 300ml to 1200ml per 100kg 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®-3515 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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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