

PRODUCT DATA SHEET

Sika® ViscoCrete® GL 3889

High range water reducing admixture for concrete

DESCRIPTION

Sika® ViscoCrete® GL 3889 is a polycarboxylic ether based, high range water reducing new second generation super plasticizer concrete admixture developed for ready-mix concrete and precast industry that needs high early and final strengths and durability.

USES

Sika® ViscoCrete® GL 3889 is used in the production of:

- Self consolidating and self compacting concrete.
- Rheodynamic concrete that can easily set to densely reinforced concrete elements.
- 18–24 hours and 28 days high strength concrete.
- Precast and prefabricated concrete.
- Ready-mix concrete

CHARACTERISTICS / ADVANTAGES

- Improves concrete's early and final compressive and flexural strengths, adherence to steel, and impermeability compared to traditional super plasticizers
- Improves concrete's mechanic properties like carbonation, resistance to chlorine ion attack, resistance to aggressive chemicals, shrinkage, and creeping.
- Enables the production of low water/cement ratio, low segregation and leaching risk Rheoplastic concrete.
- Enables production of high early strength concrete even in low temperatures.
- Minimizes stripping time. Improves wear resistance of concrete by reducing segregation and bleeding.
- Reduces application periods of resin based pavement systems on new concrete with its low water/cement ratio, high early strength and bleeding reduction properties.
- Increases Freezing-Thawing resistance of concrete

APPROVALS / CERTIFICATES

Conforms to EN 934-2., tab. 3.1/3.2

PRODUCT INFORMATION

Composition	Modified polycarboxylic ether based
Packaging	<ul style="list-style-type: none">▪ 25 L Jerrican▪ 210 litre drums▪ 1,000 litre containers▪ Bulk Tanker on request
Appearance / Colour	Pale Yellow/Gold Liquid
Shelf life	12 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost. Always refer to the packaging. Frost: If frozen or if precipitation has occurred, the Product may be used after

thawing slowly at room temperature and intensive mixing.

Density	1.04 - 1.08 Kg/L at 23°C
pH-Value	3.00 - 6.00
Total chloride ion content	≤ 0.1 % by mass

APPLICATION INFORMATION

Recommended dosage

▪ 0.6 –2.0 kg per 100 kg of cement (binder). The dosage rates given above are for typical usages, they are not meant as absolute limits, as other dosages may be utilized in special cases according to specific job conditions. If required consult Sika Technical Services Department for advice. Trial mixes should be carried out to ensure optimum dosage and effect. Where the concrete is to be machine finished by utilizing power float or power troweling methods, we recommend that you contact the according to specific job conditions.

Compatibility

▪ The Product can be used with all types of EN 197 Cements. For use with other special cements, contact our Sika Technical Services Department. The Product should not be pre-mixed with other admixtures. If other admixtures are to be used in concrete containing the Product, they must be dispensed separately.

▪ The Product can be combined and is recommended for use with other Sika products, such as: Air entraining agents SikaControl® AER series to improve frost/thaw resistance ▪ Silica fume for high performance concrete (HPC) and improving durability in chemical aggressive environments ▪ When such complimentary admixtures are required it is important that laboratory trials are performed, prior to any supply, to determine the respective dosages of any complimentary admixture, and the suitability, in the fresh and hardened state, of the resultant concrete. In these circumstances we recommend that you consult our Sika Technical Services Department for further advice.

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 should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

MIXING

The Product is a ready-to-use admixture to be added to the concrete mix as a separate component. Optimal mixing water reduction is obtained if the Product is dispensed into the concrete mix right after the addition of the first 50–70 % of the mixing water, i.e. when all the solids are wetted out. Avoid adding the admixture to the dry aggregates.

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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