

PRODUCT DATA SHEET

Sika® ViscoCrete®-3333 GL

(formerly MasterGlenium® 3333)

Water reducing and retarding superplasticizing admixture for concrete.

DESCRIPTION

SikaViscoCrete® GL 3333 is part of a range of latest generation superplasticizers engineered for ready-mix concrete. SikaViscoCrete® GL 3333 is based on unique polymers with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process the same electrostatic dispersion occurs but the presence of the lateral chains, linked to the polymer backbone, generate a steric hindrance which stabilises the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand. Suitable for use in hot and tropical climatic conditions.

USES

- Ready mixed concrete
- High flow concrete
- Concrete with high water reduction
- Slabs
- Foundations
- Walls
- Columns and piers
- Piles
- Pre-stressed concrete
- Bridges and cantilever structures

FEATURES

SikaViscoCrete® GL 3333 provides the following beneficial properties:

- Substantial improvement in workability without increased water
- Low risk of segregation Normal set without retardation (within the dosage limit)
- Improved density and surface finish
- Improved water tightness Excellent solution for continuous concrete casting of deep elements
- Does not contain chlorides or other steel corrosion

promoting ingredients

CERTIFICATES AND TEST REPORTS

SikaViscoCrete® GL 3333 follows the requirements of ASTM C494; Type G and EN 934-2

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PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates.
Packaging	Bulk, 1000 litre Container, 200 litre Drum, 25 litre Keg
Colour	Light Yellow
Shelf life	12 months minimum from production date if stored properly in original unopened, sealed and undamaged packaging.
Storage conditions	Product should be stored properly in original unopened, sealed and undamaged packaging. Store in a dry area between 5°C and 35 °C. Protect from direct sunlight
Density	1.07 +/- 0.01
pH-Value	4.61 +/- 1
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using SikaViscocrete® GL 3333 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.
Recommended dosage	0.8 - 2.5 % by weight of binder Other dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Dispensing	SikaViscocrete® GL 3333 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if SikaViscocrete® GL 3333 is poured into the concrete mix right after the addition of the first 80% of the mixing water, i.e. when all solids are wetted. Avoid adding the admixture to the dry aggregates.
Compatibility	SikaViscocrete® GL 3333 is suitable for mixes containing all types of cement and supplementary cementitious materials such as: Microsilica (Silica Fume), Fly Ash (PFA), GGBS (Ground Granulated Blast Furnace Slag) and the following Sika products: <ul style="list-style-type: none">▪ SikaPump®▪ Sika® FerroGard®▪ SikaFume®▪ SikaFiber®▪ Sika® Aer▪ Sika® Stabilizer▪ SikaControl® We recommend to perform trial mixes to establish the required performance when combining SikaViscocrete® GL 3333 with the above products or other admixtures. Please consult our Sika Technical Department.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

IMPORTANT CONSIDERATIONS

When using SikaViscocrete® GL 3333 a mix design must be selected for the local material sources used and trial mixes performed to verify suitability. If frozen

and/or if precipitation has occurred, it may only be used after thawing slowly at room temperature and intensive mixing. SikaViscocrete® GL 3333 should not be added to dry cement. Before pouring, suitability tests on the fresh concrete must be carried out. Due to the extended workability take special care that formwork is properly installed and secured. In case the setting time of concrete is extended, if cured properly, other properties may not be affected and higher ultimate strength is visualized.

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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 Safety Data Sheet (SDS) 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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