

PRODUCT DATA SHEET

Sika® ViscoCrete® GL 3182

Polycarboxylic ether superplasticizer for the production of high-quality ready-mix concrete

DESCRIPTION

Sika® ViscoCrete® GL 3182 is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers and is specially engineered for ready-mix concrete and precast concrete. Sika® ViscoCrete® GL 3182 is differentiated from conventional superplasticisers, such as those based on sulphonated melamine and naphthalene formaldehyde condensates in that it is based on a unique carboxylic ether polymer 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 stabilizes the cement particles capacity to separate and disperse.

USES

Sika® ViscoCrete® GL 3182 is used for the production of high-quality ready-mix concrete where high workability retention with high early strength is required. Uses include , but not limited to:

- High flow concrete
- Concrete with high water reduction
- Slabs and Walls
- Rafts and foundations
- Columns and piers
- Piles
- Bridges and cantilever structures

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
Packaging	1000 L flowbin or bulk supply in tanker
Appearance and colour	Brown coloured liquid
Shelf life	12 months from the date of production if stored properly

FEATURES

Sika® ViscoCrete® GL 3182 Ease provides the following beneficial properties:

- Capability of delivering high performance concrete with enhanced rheology, strength and workability
- Enhances internal lubrication of concrete which allows easier to pump and reduce pumping time
- Reduce pumping pressure thus to reduce the wear-and-tear of the pumping equipments
- Reduces stickiness which helps a smoother and stable flow of concrete
- Enhanced rheology is maintained from time of mixing to time of placement
- Concrete with Sika® ViscoCrete® GL 3182 Ease provides extended workability retention and stable setting behavior under high ambient temperatures
- Easier and faster concrete casting with improved strength development
- Improved concrete surface appearance that reduce repair cost
- Concrete meets the specification requirements
- High quality durable concrete

CERTIFICATES AND TEST REPORTS

Sika® ViscoCrete® GL 3182 Ease follows the requirements of ASTM C494; Type F&G and BS EN 934-2

Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight. Mix well before use.
Density	1.03 – 1.08 kg/l @ 25°C
pH-Value	3 – 7

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using Sika® ViscoCrete® GL 3182 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.
Chloride content	Nil (BS EN 934-2)
Recommended dosage	The normally recommended dosage rate of Sika® ViscoCrete® GL 3182 is 0.4 to 2.1 litre per 100 kg of total binder. However, site trials must be conducted to determine the optimum dosage.
Compatibility	Sika® ViscoCrete® GL 3182 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: ▪ SikaPump® ▪ Sika® FerroGard® ▪ SikaFume® ▪ SikaFiber® ▪ Sika® Aer ▪ Sika® Stabilizer ▪ Sika® Plastiment ▪ SikaControl® We recommend to perform trial mixes to establish the required performance when combining Sika® ViscoCrete® GL 3182 with the above products or other admixtures. Please consult Sika Technical Department for further assistance.
Dispensing	Sika® ViscoCrete® GL 3182 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if Sika® ViscoCrete® GL 3182 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.

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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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ISO 9001, 14001, 45001 – SGS:
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- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



Product Data Sheet

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