BUILDING TRUST

PRODUCT DATA SHEET

Sika® ViscoCrete® GL 3195

Superplasticizer for the Production of Low Viscosity Concrete with Long Retention

DESCRIPTION

Sika® ViscoCrete® GL 3195 is a very effective high-range water-reducing admixture that improves daily control in concrete production, providing stability and the development of high initial and final strengths. Based on the latest polycarboxylate technology, it is technologically formulated to interact with different types of cement, providing high performance in different types of concrete mixes. Sika® ViscoCrete® GL 3195 contributes and modifies the cement hydration. Suitable for use in hot and tropical climatic conditions.

USES

- Production of highly durable concrete
- Production of flowable concretes
- Production of high-strength concretes
- Self-Compacting Concrete (SCC)
- Robust admixture which is less sensitive to dosage making it ideal for producing concrete without any bleeding even at 10-15 % higher than required dosage
- Production of high performance concrete with very long slump/flow retention
- Concretes with low water cement ratio and high slumps
- For production of green sense and sustainable concretes

FEATURES

- Concrete is easier to pump reducing pumping time and wear-and-tear on equipment
- Enhanced rheology is maintained from time of mixing to time of placement
- Flexibility in dosing for water reduction in regular, mid, and high-range
- Produces cohesive, segregation-free concrete mixes
- Increased development of compressive and flexural strengths at all stages
- Improves pumpability and finishing
- Better performance in a wide variety of cement, fly ash, slag, and pozzolans among others
- Controlled setting and workability retention
- Reduces construction costs due to increased productivity
- Significantly improves the properties of freshly placed concrete
- It does not contain calcium chloride or any other chemical agent that contains chlorides
- Concrete is easier to pump reducing pumping time and wear-and-tear on equipment
- Enhanced rheology is maintained from time of mixing to time of placement

CERTIFICATES AND TEST REPORTS

Sika® ViscoCrete® GL 3195 follows the requirements of ASTM C494; Type F & G and EN 934-2

PRODUCT INFORMATION

Composition	Aqueous solution of modified polymer and selected additives
Packaging	Supplied in 1000 L flowbin or bulk supply in tanker
Appearance and colour	Colourless to Brown colour
Shelf life	12 months from production date, if stored correctly.

Storage conditions	Avoid storing the product in direct exposure to sunlight and high temperatures. Keep it in its original container closed and stored in a cool, dry place.
Density	1.08 kg/l (+25)
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 3195 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	(EN 934-2)

APPLICATION INFORMATION

Recommended dosage	0.8 - 2.5 % by weight of total binder. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	Sika® ViscoCrete® GL 3195 may be combined with all types of Portland cement (OPC and SRC), concretes containing pozzolanic materials such as; GGBS, PFA, micro-silica and the following Sika products: ▪ SikaPump® ▪ Sika® FerroGard® ▪ Sika® Plastiment ▪ SikaFiber® ▪ Sika Aer® ▪ Sika® Stabilizer ▪ Sika® Control ▪ Sika® WT-10 We recommend to perform trial mixes to establish the required performance when combining Sika® ViscoCrete® GL 3195 with the above products or other admixtures. Please consult Sika Technical Department for further assistance.
Dispensing	Sika® ViscoCrete® GL 3195 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if Sika® ViscoCrete® GL 3195 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.

LIMITATIONS OF USE

Sika® ViscoCrete® GL 3195 ensures that concrete remains workable up to 5-10 hours depending upon the dosage. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability.

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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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.