

BUILDING TRUST

PRODUCT DATA SHEET

Sika® ViscoCrete® GL 175

(formerly MGlenium 175)

POLYCARBOXYLIC ETHER SUPERPLASTICIZER FOR THE PRODUCTION OF HIGH QUALITY EARLY SETTING READY MIX CONCRETE

DESCRIPTION

Sika® ViscoCrete® GL 175 is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers, and is specially engineered for readymix concrete and precast concrete.

Sika® ViscoCrete® GL 175 is differentiated from conventional superplasticizers, such as those based on sulphonated melamine and naphthalene formaldehyde condensates. Sika® ViscoCrete® GL 175 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. Sika® ViscoCrete® GL 175 is suitable for use in hot and tropical climatic conditions.

USES

Sika® ViscoCrete® GL 175 is used for the production of high quality early setting concrete for ready-mix & Precast industry.

FEATURES

Sika® ViscoCrete® GL 175 offers the following benefits for:

For the Ready-mix Producer:

- Production of high performance concrete with enhanced rheology, strength and workability
- Production of a concrete with low water cement ratio without loss of workability
- Single product for many application requirements

For the Contractor/Applicator:

- Easier to place the concrete and improved strength development
- Improved concrete surfaces appearance
- Predictable performance

For the Engineer:

• High quality durable concrete

CERTIFICATES AND TEST REPORTS

Sika® ViscoCrete® GL 175 follows the requirements of ASTM C494; Types F & G and BS EN 934-2

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
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Packaging	210 L drum, 1000 L flowbin or bulk supply in tanker
Appearance and colour	Brown colored liquid
Shelf life	12 months from date of production if stored properly
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.

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January 2025, Version 01.01 021301000000002558

Density	~1.06 kg/l (+25 °C)	
pH-Value	5–8	
Total chloride ion content	Nil (BS EN	934-2)
TECHNICAL INFORMATION		
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using Sika® ViscoCrete® GL 175 in concre Refer to relevant standards. Fresh concrete must be cured properly escially at high temperatures in order to prevent plastic and drying shrir age. Use Sika® Antisol® products as a curing agent or apply wet hessia	ete. spe- nk-
Recommended dosage	0.4 to 2.5 L per 100 kg of total binder. Trial mixes must be conducted tablish the exact dosage rate as per the project requirements.	to es-
Compatibility	Sika® ViscoCrete® GL 175 is suitable for mixes containing all types of coment and supplementary cementitious materials such as: Microsilica (Silica Fume), Fly Ash (PFA), GGBS (Ground Granulated Blast Furnace Stand the following Sika products: SikaPump® Sika® FerroGard® SikaFume® SikaFiber® SikaFiber® Sika® Stabilizer Sika® Stabilizer SikaControl® We recommend to perform trial mixes to establish the required perforance when combining Sika® ViscoCrete® GL 175 with the above products or other admixtures. Please consult our Sika Technical Department for further assistance.	Slag) orm-
Dispensing	Sika® ViscoCrete® GL 175 is a ready-to-use admixture to be added to the concrete as a separate component. Optimal result is obtained if Si ViscoCrete® GL 175 is poured into the concrete mix right after the addition of the first 80 % of the mixing water, i.e. when all solids are wetter Avoid adding the admixture to the dry aggregates.	-ik

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 Sika® ViscoCrete® GL 175 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. Sika® ViscoCrete® GL 175 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 may be achieved.

Sika® ViscoCrete® products are not compatible with admixtures based on sulfonated napthalene or melamine. When accidental overdosage occurs, bleeding and segregation of the concrete and retardation of intial set may be obseved.

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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