

## PRODUCT DATA SHEET

## Sika® ViscoCrete® GL 54-Q OM

## WATER-REDUCING AND RETARDING ADMIXTURE FOR CONCRETE

## DESCRIPTION

Sika® ViscoCrete® GL 54-Q OM is a polycarboxylate based superplasticizer developed particularly for use in ready mixed concrete to give extended slump retention and high strength development of high specification grade concrete mixes. Sika® ViscoCrete® GL 54-Q OM is suitable for use in concrete mixes incorporating pozzolanic materials such as GGBS, PFA and micro-silica.  
Suitable for use in hot and tropical climatic conditions.

## USES

Sika® ViscoCrete® GL 54-Q OM is mainly used for the following applications:

- Production of site mixed and ready mixed concrete
- High performance / high strength concrete
- Concrete with low water / binder (w/b) ratio
- Concrete requiring retained workability during hot weather production of concrete with extended transportation or placing times

## FEATURES

Sika® ViscoCrete® GL 54-Q OM acts by surface adsorption on the cement particles producing steric hindrance and electrostatic repulsion between cement particles which results in higher dispersion, flow and retention.

Sika® ViscoCrete® GL 54-Q OM provides the following beneficial properties:

- Powerful plasticising action
- Production of workable concrete at low w/b ratio
- Improved shrinkage and creep characteristics
- Excellent flowability resulting in minimal placing and compacting efforts
- Slower rate of carbonation ingress
- Cost effective, structurally economic
- Higher ultimate strengths, allows greater flexibility for engineers to design
- Reduced surface defects so improving aesthetic appearance
- Durable concrete
- Does not contain chlorides or other steel corrosion promoting ingredients therefore may be used for reinforced and pre-stressed concrete structures

## CERTIFICATES AND TEST REPORTS

Sika® ViscoCrete® GL 54-Q OM follows the requirements of ASTM C494; Type G and EN 934-2 (Table 3.1 and Table 3.2)

## PRODUCT INFORMATION

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Composition           | Aqueous solution of modified polycarboxylates, co-polymers       |
| Packaging             | 1000 L flowbin. Bulk supply in tanker trucks possible on request |
| Appearance and colour | Brown liquid                                                     |

|                                   |                                                                                                                                                                                   |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Shelf life</b>                 | 12 months from date of production if stored properly                                                                                                                              |
| <b>Storage conditions</b>         | Store in cool and dry conditions in unopened, undamaged and sealed original packaging at temperatures between +5 °C and +45 °C protected from direct sunlight, heat and moisture. |
| <b>Density</b>                    | ~1.08 kg/l (at +25 °C)                                                                                                                                                            |
| <b>Total chloride ion content</b> | Nil (EN 934-2)                                                                                                                                                                    |

## TECHNICAL INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concreting guidance</b> | The standard rules of good concreting practice for production and placing must be observed when using Sika® ViscoCrete® GL 54-Q OM 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. |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## APPLICATION INFORMATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended dosage</b> | 0.8 - 2 % by weight of binder<br>Higher 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.                                                                                                                                                                                                                                                                                    |
| <b>Compatibility</b>      | Sika® ViscoCrete® GL 54-Q OM 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®, SikaFume®, SikaFiber®, Sika® Aer, Sika® Stabilizer, SikaControl®.<br>We recommend to perform trial mixes to establish the required performance when combining Sika® ViscoCrete® GL 54-Q OM with the above products or other admixtures. Please consult our Sika Technical Department.             |
| <b>Dispensing</b>         | Sika® ViscoCrete® GL 54-Q OM is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add Sika® ViscoCrete® GL 54-Q OM directly to the dry mix.<br>For optimum utilization of its high water reduction property we recommend thorough mixing at a minimal wet mixing time of 60 seconds. The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete. |

## 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 54-Q OM 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 54-Q OM 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.

Sika® ViscoCrete® products are not compatible with admixtures based on sulfonated naphthalene or melamine. When accidental overdosage occurs, bleeding and segregation of the concrete and retardation of initial set will be observed.

## 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 – TÜV  
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Sika Construction Chemicals  
for Manufacturing LLC  
ISO 9001 – LMS  
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.



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