

## PRODUCT DATA SHEET

# Sika® ViscoCrete® GL 3007

(formerly MasterGlenium® 3007)

New Polycarboxylic etherbased superplasticizer for the production of high quality ready-mix concrete with low water cement ratio and exceptional workability

### DESCRIPTION

Sika® ViscoCrete® GL 3007 is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers and is specially engineered for ready-mix concrete.

Sika® ViscoCrete® GL 3007 is differentiated from conventional superplasticisers, such as those based on sulphonated naphthalene formaldehyde condensate 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 stabilises the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand. Sika® ViscoCrete® GL 3007 is an innovative latest generation superplasticizer based on polycarboxylic ether (PCE) polymers and is specially engineered for ready-mix concrete. Sika® ViscoCrete® GL 3007 is differentiated from conventional superplasticisers, such as those based on sulphonated naphthalene formaldehyde condensate 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 stabilises the cement particles capacity to separate and disperse. This mechanism provides flowable concrete with greatly reduced water demand.

### USES

Sika® ViscoCrete® GL 3007 is used for the production of highquality readymix concrete. The technology produces advanced self-compacting concrete, without the aid of vibration. For economic, ecological and ergonomic readymix / precast concrete production.

### FEATURES

Sika® ViscoCrete® GL 3007 offers the following benefits for:

#### THE READY- MIX PRODUCER:

- Capability of delivering high performance concrete at any time to the job site in place
- Production of a concrete with low water cement ratios with excellent workability retention properties.
- Single product for many application needs.

#### THE CONTRACTOR / APPLICATOR:

- Easier placing and faster strength development
- Improved concrete surfaces

#### THE ENGINEER:

- Insurance that concrete meets original specification
- High quality durable concrete

### PRODUCT INFORMATION

<b>Packaging</b>	Sika® ViscoCrete® GL 3007 is supplied in 1,000 litre containers or in bulk.
<b>Appearance and colour</b>	Brownish liquid

<b>Shelf life</b>	The shelf life is 1 year when stored as below.
<b>Storage conditions</b>	Sika® ViscoCrete® GL 3007 should be stored out of direct sunlight and protected from extremes of temperature.
<b>Density</b>	1.060-1.070
<b>pH-Value</b>	4 – 8
<b>Viscosity</b>	70-90

## APPLICATION INFORMATION

<b>Consumption / Yield / Dosage (PRINT single line)</b>	The normally recommended dosage rate of Sika® ViscoCrete® GL 3007 is 0.8 to 4.0 litre per 100kg of total cementitious material. other dosages may be recommended in special cases according to the specific site conditions. In this case please consult our Technical Service department for advice.
<b>Compatibility</b>	Sika® ViscoCrete® GL 3007 is suitable for mixes containing: <ul style="list-style-type: none"> <li>▪ Microsilica (Silica Fume)</li> <li>▪ Fly Ash (PFA)</li> <li>▪ GGBS (ground granulated blast furnace slag)</li> </ul>

## BASIS OF PRODUCT DATA

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

## 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.

## APPLICATION INSTRUCTIONS

### MIXING

Sika® ViscoCrete® GL 3007 is a readytouse admixture to be added to the concrete as a separate component. Optimal result is obtained if Sika® ViscoCrete® GL 3007 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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### Product Data Sheet

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