

## PRODUCT DATA SHEET

# Sika ViscoFlow®-1007 Sure

(formerly MasterSure® 1007)

### SUPER SLUMP RETAINING AID FOR EXTENDED SLUMP RETENTION

#### DESCRIPTION

Sika ViscoFlow®-1007 Sure is an innovative new generation polycarboxylate ether based slump retaining aid with super retention technology. Additionally, it can help the ready-mixed / precast concrete industries, where more than normal slump retention and durability are required, particularly in hot climates. Sika ViscoFlow®-1007 Sure is a specifically tailored, stand-alone product, the constituents of its active ingredient exhibiting unique adsorption characteristics to cement.

Sika ViscoFlow®-1007 Sure can be used in conjunction with polycarboxylate ether and modified lignosulphonate based admixtures only to aid in super slump retention of a concrete mix. The excellent dispersion effect makes Sika ViscoFlow®-1007 Sure the ideal aid for the ready-mixed concrete / precast concrete industry, without affecting concrete setting times. The ability to work over a range of water binder ratios including low w/b ratios and still obtain extended slump retention allows for the manufacture of high quality concrete. Sika ViscoFlow®-1007 Sure is free of added chloride and complies with ASTM C 494/ C 494M-08, Type G, BS EN 934 – 2:2001, AS 1478.1 - 2000 Type SN and is also compatible with all cements meeting recognized international standards.

#### USES

- Super slump retaining concrete with equal or less water content than conventional admixtures
- Faster mixing aids logistics during large pours
- Highly flowable concrete
- Highly durable concrete
- Ready-mixed concrete
- Precast concrete
- Mass concrete
- Long distance transport
- Pumped concrete
- Hot weather concreting

#### FEATURES

- High workability – ease of placing and compaction. No segregation.
- Superior slump retention – no re-tempering.
- Low shrinkage and creep – improve dimensional stability. Reduced risk of cracks.
- Good cohesion – ease of pumping. No bleeding.
- Good workability – excellent surface appearance. Self-compacting concrete.
- Superior slump retention, including mid-range slumps.
- Minimal bleed water – excellent concrete quality.
- High elastic modulus – superior load bearing capacity.

#### PRODUCT INFORMATION

<b>Composition</b>	Modified aqueous solution of modified polycarboxylate copolymers
<b>Packaging</b>	205 L drums (non-returnable) 1000 L bulk delivery
<b>Shelf life</b>	12 months from date of production if stored properly in undamaged unopened, original sealed packaging.

<b>Storage conditions</b>	Store in dry conditions at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
<b>Appearance and colour</b>	Liquid / light brown to brown
<b>Concreting guidance</b>	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials before concreting on site are strongly recommended when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and as early as possible.
<b>Recommended dosage</b>	0.15 - 2.00 L per 100 Kg of cementitious. Other dosages may also be used depending on the specific working conditions. Trial mixes should be made with job materials to determine the optimum dosage required for a specified job requirement.
<b>Compatibility</b>	Sika ViscoFlow®-1007 Sure may be combined with the following products: <ul style="list-style-type: none"> <li>▪ Sika® Plastiment® Series</li> <li>▪ Sika® ViscoCrete® Series</li> <li>▪ SikaFume®</li> <li>▪ SikaFiber®</li> </ul> Do not use viscocrete / viscoflow series combined with sikament series. To produce flowing and / or self-compacting concrete, special concrete mix design is required. Pre-trials are recommended and mandatory if combinations with the above products are required. Please consult to our Technical Service Department.

## 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.

## APPLICATION INSTRUCTIONS

### DISPENSING

Sika ViscoFlow®-1007 Sure is a ready-to-use admixture to be added to the concrete mix as a separate component along with a polycarboxylate ether or modified lignosulphonate based admixture. Optimal mixing is obtained if Sika ViscoFlow®-1007 Sure is poured into the concrete mix right after the addition of the first 50 -70% of the mixing water. Avoid adding the admixture to the dry aggregates. A separate dispenser and feed line must be used.

#### PT. Sika Indonesia Head Office and Manufacturing

Jl. Raya Cibinong-Bekasi Km.20  
Limusunggal-Cileungsi  
Bogor 16820-Indonesia  
Tel. +62 21 8230025, Fax +62 21  
8230026



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## 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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