

## PRODUCT DATA SHEET

# Sika ViscoFlow<sup>®</sup>-750

High performance superplasticizing concrete admixture for high water reduction and prolonged slump retention



### DESCRIPTION

Sika ViscoFlow<sup>®</sup>-750 is an admixture especially designed for concrete mixes which require high water reduction, increased strengths and prolonged slump maintenance. It is particularly suited for use in concretes that require low water/cement ratios and / or high water reductions with excellent workability retention properties of 4 hours+. It is based on Sika's polycarboxylate technology.

### USES

Sika ViscoFlow<sup>®</sup>-750 is especially suitable for production of mixes with demands for prolonged slump maintenance, as well as improved rheological characteristics.

Sika ViscoFlow<sup>®</sup>-750 is used mainly for the following applications:

- Any concrete transportation under hot/cold climatic conditions for prolonged period and with demand for workability maintenance
- Applications that require extended and stable consistence retention without delayed setting
- High quality Site batched/ Ready Mix concrete
- High rise/pumped concrete
- Production of concrete mixes adjusted to the special demands of the timetable of the project regarding casting phases
- Production of concrete mixes with high water reduction
- For qualitative, high demand projects
- For high durability concrete

### PRODUCT INFORMATION

<b>Composition</b>	Aqueous solution of polycarboxylate polymers
<b>Packaging</b>	IBC, barrels, containers Bulk supply upon request

### CHARACTERISTICS / ADVANTAGES

- High range water reductions resulting in higher strengths and densities
- Extended consistence retention
- Improved cohesion properties
- Improved early and ultimate strengths
- Excellent placement characteristics
- Improved rheology
- Improved durability
- Reduced segregation and bleeding
- Reduced drying shrinkage
- Reduced mix costs

Sika ViscoFlow<sup>®</sup>-750 works based on a combination of electrostatic adsorption and steric repulsion effects. Thus, solid particles can be effectively dispersed and a high level of fluidity can be reached with less water. As a result, Sika ViscoFlow<sup>®</sup>-750 can provide higher workability time and stability than conventional dispersants.

Sika ViscoFlow<sup>®</sup>-750 does not contain chlorides and is therefore suitable for prestressed and reinforced concrete.

### APPROVALS / CERTIFICATES

- CE Mark and Declaration of Performance according to EN 934-2: High range water reducing / superplasticizing admixture (Tables 3.1 & 3.2) and Set retarding / high range water reducing / super plasticizing admixture (Tables 11.1 & 11.2)

<b>Appearance / Colour</b>	Liquid, light brown
<b>Shelf life</b>	8 months from date of production
<b>Storage conditions</b>	Store properly in undamaged, unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.
<b>Density</b>	~1,06 kg/L (at +20 °C)
<b>pH-Value</b>	3,5-5,5 (at +20 °C)
<b>Total chloride ion content</b>	Free (EN 934.01)

## TECHNICAL INFORMATION

<b>Concreting guidance</b>	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as soon as possible.
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## APPLICATION INFORMATION

<b>Recommended dosage</b>	0,4 - 2,5 % b.w. of cement. Dosages >2,0% may be used in cases of high demands for workability maintenance, very absorbent aggregates, very high temperatures, e.t.c.
<b>Compatibility</b>	Sika ViscoFlow <sup>®</sup> -750 can be combined with the following Sika products: <ul style="list-style-type: none"> <li>▪ Sika<sup>®</sup> Plastiment<sup>®</sup> series</li> <li>▪ Sika<sup>®</sup> Plastocrete<sup>®</sup> N/ Sika<sup>®</sup>-1+ / Sika<sup>®</sup> WT-200 P</li> <li>▪ Sika<sup>®</sup> Visco I-100</li> <li>▪ Sika<sup>®</sup> Aer Fine</li> <li>▪ Sika<sup>®</sup> Ferrogard<sup>®</sup>-901 S</li> <li>▪ Sikafume<sup>®</sup> HR-E / Sikacrete<sup>®</sup> AR</li> <li>▪ Sigunit<sup>®</sup> shotcrete accelerators</li> </ul> Trials are recommended before combining products.
<b>Dispensing</b>	Sika ViscoFlow <sup>®</sup> -750 is added to the gauging water at the plant or added on-site into the concrete mixer.

## 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.

- Sika ViscoFlow<sup>®</sup>-750 should be added with the mixing water or introduced at the end of the mixing process.
- Before application, suitability tests must be performed.

## IMPORTANT CONSIDERATIONS

- When using Sika ViscoFlow<sup>®</sup>-750 a suitable mix design has been taken into account and local material sources should be trialled.
- Sika ViscoFlow<sup>®</sup>-750 should not be added to dry cement.
- Excessive water addition or overdosing may cause bleeding or segregation.

## 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

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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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### Product Data Sheet

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