

## PRODUCT DATA SHEET

# Sika ViscoFlow<sup>®</sup>-1833

## CONCRETE ADMIXTURE FOR HIGH FLOW / SELF-COMPACTING CONCRETE

### DESCRIPTION

Sika ViscoFlow<sup>®</sup>-1833 is a third generation superplasticiser for concrete and mortar. It is particularly developed for the production of high flow concrete with exceptional flow retention properties and significant reduction in bleeding and segregation.

### USES

Sika ViscoFlow<sup>®</sup>-1833 facilitates excellent flowability with optimal cohesion and longer slump retention properties.

Sika ViscoFlow<sup>®</sup>-1833 is used for the following types of concrete:

- High flow concrete
- Self-compacting concrete (S.C.C.)
- High strength concrete
- Watertight concrete

The combination of high water reduction, excellent flowability and long slump retention provides clear benefits in the above mentioned applications.

### FEATURES

Sika ViscoFlow<sup>®</sup>-1833 acts by surface adsorption on the cement particles producing a sterical separation effect. Concrete produced with Sika ViscoFlow<sup>®</sup>-1833 exhibits the following properties:

- Excellent flowability (resulting in highly reduced placing and compacting efforts)
- Strong self-compacting behaviour
- Improved shrinkage and creep behaviour
- Increased carbonation resistance of the concrete
- Improved finish
- Reduce tendency to bleeding and segregation

Sika ViscoFlow<sup>®</sup>-1833 does not contain chlorides or other ingredients which promotes steel corrosion. Therefore, it may be used without restriction for reinforced and pre-stressed concrete construction.

### PRODUCT INFORMATION

<b>Composition</b>	Modified aqueous solution of modified polycarboxylate copolymers
<b>Packaging</b>	200 L drums (non-returnable) 1 000 L bulk delivery
<b>Appearance and colour</b>	Liquid / Turbid colorless to yellowish
<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>Total chloride ion content</b>	< 0.1% w/w

## TECHNICAL INFORMATION

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### Concreting guidance

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.

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## APPLICATION INFORMATION

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### Recommended dosage

For soft plastic concrete:	0.2 % - 0.6 % by weight of binder
For flowing and self compacting concrete (SCC):	1.6 % - 2.0 % by weight of binder

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### Compatibility

Sika ViscoFlow®-1833 may be combined with the following products:

- Plastiment® P121R
- Plastiment® VZ
- Sika® Fume
- SikaFibre®

Do not use visocrete / 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.

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## 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®-1833 is added to the gauging water or simultaneously poured with it into the concrete mixer. For optimum utilisation of its high water reduction property and slump keeping property, we recommend to add Sika ViscoFlow®-1833 into “wet” concrete mixture and then thorough mixing at a minimal wet mixing time of 60 seconds.

The addition of the remaining gauging water (normally 5 % of designed water quantity to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time, to avoid surplus water in the concrete.

When added directly to the freshly mixed concrete, the plasticizing effects is more pronounced. When accidental overdosing occurs, Sika ViscoFlow®-1833 does not entrain excessive amounts of air, however the set retarding effect increases.

## 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.

### 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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