

PRODUCT DATA SHEET

Sika ViscoFlow®-651 NG

High range water reducing concrete admixture

DESCRIPTION

Sika® ViscoFlow®651NG is a high range water reducing admixture with extended workability properties for concrete and mortar. It meets the requirements for set retarding / superplasticizing admixtures according to EN 934-2: 2001.

USES

Sika® ViscoFlow®651NG is used for the production of site batched and ready mix concrete with extended workability and when required for long transport distances.

Sika® ViscoFlow®651NG is recommended for:

- Concrete with the highest possible water reduction (up to 30%)
- High performance concrete
- Hot weather concreting and concrete with a long transport time and/or extended workability
- High fines concrete (such as with blended cements)
- Concrete produced with very reactive cement

FEATURES

Through surface absorption and sterical effects separating the binder particles, the following properties are achieved:

- Extremely powerful water reduction (thereby creating high concrete density and high strengths)
- Extends workability time while still maintaining high early strength
- Excellent plasticising effects, resulting in improved flow, placing and compaction characteristics
- Greatly improved watertightness
- Reduced creeps and shrinkage
- Reduced carbonation rate of the concrete

Sika® ViscoFlow®651NG does not contain chlorides or any other materials which promote the corrosion of steel reinforcement. It is therefore suitable for reinforced and pre-stressed concrete.

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PRODUCT INFORMATION

Composition	PCE
Packaging	200 kg 1000 kg IBC Bulk upon request
Shelf life	12 months minimum if stored properly in original unopened packaging
Storage conditions	In a dry area between 5°C and 35°C. Protect from direct sunlight, frost and contamination
Colour	Light Yellow
Density	1.09 +/- 0.01
pH-Value	4.18 +/- 1
Recommended dosage	0.5 - 2.0 % by weight of cement (binder)
Dispensing	Sika ViscoFlow®-651 can be added to the mixing water prior to its addition to the dry mix or directly to the freshly mixed concrete (the plasticizing effect is more Pronounced). Never add Sika ViscoFlow®-651 directly to dry cement or aggregates (Efficiency reduction). Sika ViscoFlow®-651 can be used with other Sika admixtures provided that, preliminary testing is done to ascertain compatibility. Allow enough time for the concrete to mix thoroughly.
Compatibility	Sika ViscoFlow®-651 may be combined with many other Sika Products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for Clarification and advice about any specific combinations. Please consult our Technical Services Department for information with regards to any special usage

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

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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