

PRODUCT DATA SHEET

Sika ViscoFlow®-615

High-range water-reducing and workability retaining admixture

DESCRIPTION

Sika ViscoFlow®-615 is a high-range water-reducing and workability retaining admixture utilizing Sika PCE technology. Sika ViscoFlow®-615 extends the workability time depending on the dosage.

USES

Sika ViscoFlow®-615 is designed for use in both ready mix and precast applications whenever extended workability, high plasticity, and increased early/ultimate strengths are required. Sika ViscoFlow®-615 is mainly used for the following applications:

- Concrete that require high water reduction up to 30%
- High strength concrete applications
- Hot weather concreting and concrete with extended transportation and workability time. Up to 4hours or more workability time possible depending on the dossage without impacting the early strength achievement.
- Concrete produced with very reactive cements

FEATURES

Sika ViscoFlow®-615 works based on a mechanism of both electrostatic dispersion 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®-615 can provide higher workability time and stability than conventional dispersants. As a result Sika ViscoFlow®-615:

- Keeps workability for extended time
- Slump retention without additional retardation and subsequent fast strength development
- Constant slump flow and smoothness of the concrete over hours
- Extremely powerful water reduction (thereby creating high concrete density and high strengths)
- Controlled retarding properties
- Greatly improved water tightness
- Reduced creeps and shrinkage
- Reduced carbonation rate of the concrete

Sika ViscoFlow®-615 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.

PRODUCT INFORMATION

Composition	Modified polycarboxylate in water
Packaging	<ul style="list-style-type: none"> ▪ 20lit Jerrycan ▪ 200lit Barrel ▪ 1,000lit IBC Tanker
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
Appearance and colour	Light Brown Liquid
Density	1.09 ± 0.03 kg/l (at 20°C)
pH-Value	5 ± 1

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice (production as well as placing) must be followed when using Sika ViscoFlow®-615 in concrete. Refer to relevant standards.
Specific advice	<ul style="list-style-type: none">▪ We recommend testing to determine the correct dosage of the admixture for your concrete work and whenever concrete mixed design is changed.▪ When accidental overdosing occurs, the set retarding effect increases. During this period the concrete must be kept moist in order to prevent premature drying out.▪ For further details contact our Technical Department.

APPLICATION INFORMATION

Recommended dosage	0.5 - 2.0 % by weight of cement (binder)
Dispensing	Sika ViscoFlow®-615 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®-615 directly to dry cement or aggregates (Efficiency reduction). Sika ViscoFlow®-615 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®-615 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

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

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.

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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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