

PRODUCT DATA SHEET

Sika ViscoFlow®-615 KE

Water Reducing and Slump Enhancing Superplasticizer

DESCRIPTION

Sika ViscoFlow® -615 KE is a high range water reducer and a workability enhancing superplasticizer for concrete based on Sika's PCE technology. Sika ViscoFlow®-615 KE extends the workability time depending on dosage.

USES

Sika ViscoFlow® -615 KE is especially suitable for concrete mixes with extended workability requirements as well as improved flow characteristics. Sika ViscoFlow® -615 KE is mainly used for the following applications:

- Concrete with highest possible water reduction up to 30 %
- High strength concrete applications
- Hot weather concreting and concrete with extended transportation and workability time. Up to 4hours workability time possible
- Concrete produced with very reactive cements

CHARACTERISTICS / ADVANTAGES

Sika ViscoFlow® -615 KE 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® -615 KE:

- Provides higher workability time and stability than conventional dispersants.
- Keeps workability for extended time

PRODUCT INFORMATION

Composition	Modified polycarboxylate in water
Packaging	25 L Jerrycan 200 L Barrel 1000 L IBC Tanker or bulk supply in tanker trucks is possible on request.

- 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
- Excellent plasticising effects, resulting in improved flow, placing and compaction characteristics
- Greatly improved water tightness
- Reduced creeps and shrinkage
- Reduced carbonation rate of the concrete

Sika ViscoFlow® -615 KE 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.

APPROVALS / CERTIFICATES

Conforms to the requirements of:

- EN 934 – 2, Table 10.
- ASTM C494 - Standard Specification for Chemical Admixtures for Concrete

Appearance / Colour	Yellowish/Light Brown to Clear Liquid
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
Density	1.10 kg/l (at 20°C) ± 0.05
pH-Value	5.0 ± 1.0
Conventional dry material content	32.00 ± 2.0 %
Total chloride ion content	Nil
Concreting guidance	The standard rules of good concreting practice (production as well as placing) must be observed when using SikaViscoFlow® -615 KE concrete. Refer to relevant standards.
Recommended dosage	0.2 - 2.0 % by weight of cement (binder)
Compatibility	Sika ViscoFlow® -615 KE 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 information and advice about any specific combinations. Please consult our Technical Services Department for information with regards to any special usage. Combinations with microsilica: Sika ViscoFlow®-615 KE is particularly well suited for use with microsilica (silica fume), slag and fly ash because of its water reduction capability and superior slump control.
Dispensing	Sika ViscoFlow® -615 KE is added to the gauging water prior to its addition to the dry mix. Allow enough time for the concrete to mix thoroughly.

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.

IMPORTANT CONSIDERATIONS

When using SikaViscoFlow® -615 KE a suitable mix design must be selected and local material sources should be trialled. When accidental overdosing occurs, apart from retarding of the initial set no detrimental effect will take place. During this period the concrete must be kept moist in order to prevent premature drying out. SikaViscoFlow® -615 KE should not be added to dry cement. Before pouring, suitability tests on the fresh concrete must be carried out.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

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LOCAL RESTRICTIONS

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

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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