

SikaViscoFlow® - 615 KE

Water Reducing and Slump Enhancing Admixture

Product Description SikaViscoFlow®- 615 KE is a high range water reducer and a workability enhancing admixture for concrete based on Sikas PCE technology. SikaViscoFlow®- 615 KE extends the workability time depending on dosage.

Uses SikaViscoFlow® -615 KE is especially suitable for concrete mixes with extended workability requirements as well as improved flow characteristics.

SikaViscoFlow®- 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 SikaViscoFlow®- 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, SikaViscoFlow®-615 KE can provide higher workability time and stability than conventional dispersants.

- 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
- 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

SikaViscoFlow®-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.

Tests

Approval/ Standards Conforms to the requirements of EN 934 – 2, Table 10.



Product Data

Form Liquid

Appearance / Colours Yellowish

Packaging 20lit Jerrycan
200lit Barrel
1000lit IBC Tanker
Bulk supply in tanker trucks is possible on request.

Storage

Storage Conditions / Shelf-Life Store in a dry area and at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.
12 months minimum from production date if stored properly in original unopened packaging

Technical Data

Chemical Base Modified polycarboxylate in water

Density/ Specific gravity 1.08 kg/l (at +20°C) ± 0.05

Solid Content 34%

pH Value

Effect on Setting Retarding According to Dosage

Total Chloride Content Nil

Application Details

Dosage 0.2 - 2.0% by weight of cement

Application Conditions / Limitations

Compatibility SikaViscoFlow®- 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

Dispensing SikaViscoFlow®- 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.

Concrete Placing The standard rules of good concreting practice (production as well as placing) must also be observed when using SikaViscoFlow® -615 KE concrete. Refer to relevant standards.

Curing Fresh concrete must be cured properly, especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika Antisol® products as a curing agent or apply wet hessian.

Cleaning Clean all equipment and tools with water immediately after use.



Notes and application/ limitations	<p>When using SikaViscoFlow®-615 KE a suitable mix design must be selected and local material sources should be trialled.</p> <p>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.</p> <p>Before pouring, suitability tests on the fresh concrete must be carried out.</p>
Value Base	<p>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.</p>
Health and Safety	<p>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.</p>
Legal Notes	<p>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 requestor accessed on the Internet under https://eth.sika.com.</p>



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