

PRODUCT DATA SHEET

Sika ViscoFlow®-615 TZ

Superplasticiser / High range water reducer

DESCRIPTION

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

USES

Sika ViscoFlow®-615 TZ is especially suitable for concrete mixes with extended workability requirements as well as improved flow characteristics.

Sika ViscoFlow®-615 TZ 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 TZ 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 TZ 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

Sika ViscoFlow®-615 TZ 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	Aqueous solution of modified polycarboxylates
Packaging	200L, 1000L, IBC, bulk deliveries
Appearance / Colour	Pale yellow
Shelf life	12 months 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	1.08 g/cm ³ ± 0.02
pH-Value	5±1

APPLICATION INFORMATION

Recommended dosage	According to the main goal we recommend the dosage of 0.4 %– 2.0% by weight of cement. It is advisable to carry out trial mixes to establish the exact dosage rate required.
Dispensing	Sika ViscoFlow®-615 TZ can be added to the mixing water prior to its addition to the aggregates or directly to the freshly mixed concrete (the plasticizing effect is more pronounced). Never add Sika ViscoFlow®-615 TZ directly to dry cement or aggregates (Efficiency reduction). Sika ViscoFlow®-615 TZ 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.
Restrictions	<ul style="list-style-type: none">▪ We recommend testing to determine the correct dosage limitations of the admixture and whenever concrete composition 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.

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.

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

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 recom-

mendations, 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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Sika ViscoFlow®-615 TZ
May 2021, Version 01.01
021301011000004117

SikaViscoFlow-615TZ-en-TZ-(05-2021)-1-1.pdf