

Sika ViscoFlow BS TZ®

Superplasticiser / High range water reducer

Product description

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

Uses

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

Sika ViscoFlow BS 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.
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**Characteristics/
Advantages**

Sika ViscoFlow BS 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 BS 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 BS 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.

Tests

**Approval/
Standards**

Complies with EN 934-2

Product Data

Appearance/color

Yellow liquid.

Packaging

200L, 1000L, IBC, bulk deliveries



Storage conditions	In a dry area between 5°C and 35°C. Protect from direct sunlight, frost and contamination
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Shelf life	12 months if stored properly in original unopened packaging
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Technical Data

Chemical base	Modified polycarboxylate in water
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Density	1.08 g/cm ³ ± 0.02
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Ph Value	5±1
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Chloride Content	Nil
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Application Details

Consumption/ 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.
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Application instructions

Mixing/Dispensing	Sika ViscoFlow BS 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 morePronounced). Never add Sika ViscoFlow BS TZ ® directly to dry cement or aggregates(Efficiency reduction). Sika ViscoFlow BS 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.
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Concrete Placing	The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards.
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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.
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Cleaning	Clean all equipment and tools with water immediately after use.
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Notes on Application / Limitations

- 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.



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Certificate Number: 184300B



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Value base	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.
Local Restrictions	Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet/Sika technical staff for the exact description of the application fields.
Health and Safety Information	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.
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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