

PRODUCT DATA SHEET

Sika® ViscoTight®

new generation waterproofing and superplasticizing admixture for water tight concrete construction



DESCRIPTION

Sika® ViscoTight® is a concentrated liquid admixture used as a waterproofing fortifier with cement based products especially concrete or mortars. The power of Sika® ViscoTight® is its ability to create a concrete/mortar mix with improved strengths and greatly improved waterproofing properties

USES

Sika® ViscoTight® is suitable for the production of site mixed as well as ready-mix concrete and mortars that require improved waterproofing characteristics

- Concentrated, high performance liquid powered by Sika® ViscoCrete® Technology
- Significantly improves workability
- Prevents bug holes in forms
- Improved density enhances waterproofing characteristics of mix
- Provides excellent adhesion
- Increased compressive strength
- Improves chemical resistance of mortar and concrete

FEATURES

Sika® ViscoTight® acts by different mechanisms. Through surface absorption and sterical separation effect on the cement particles, in parallel to the hydration process, the following properties are obtained:

- High water reduction (resulting in high density and strength)
- Excellent flowability
- Improved waterproofing characteristics of concrete and mortar
- Reduced rate of carbonation of the concrete

Sika® ViscoTight® does not contain chloride or other steel corrosion promoting ingredients. It may therefore be used without any restriction for reinforced and prestressed concrete construction.

CERTIFICATES AND TEST REPORTS

Conforms to the requirements of MNS ASTM C494C/494M:2011.

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PRODUCT INFORMATION

Composition	Polycarboxylic polyether type polymer
Packaging	1000 kg IBC container
Appearance and colour	white opaque liquid
Shelf life	12 months from date of production
Storage conditions	Should be stored properly in undamaged unopened, original sealed packaging in dry conditions at temperatures between +5°C and +35°C. Protected from direct sunlight and frost. In case of long storage mix before.
Density	~ 1.02 ± 0.02 kg/L
pH-Value	4.0 - 7.0 (at 20° C)
Total chloride ion content	Free (EN 934.01)
Concreting guidance	The standard rules of good concreting practice, concerning production as well as placing, are to be followed. Refer to relevant standards. Fresh concrete must be cured properly.
Recommended dosage	1.8 - 2.5% by weight of cementitious
Compatibility	Sika® ViscoTight® can 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 advise about the specific combinations.
Dispensing	<p>Sika® ViscoTight® is added to the gauging water or simultaneously with it poured into the concrete mixer.</p> <p>When using Sika® ViscoTight®, the air content in the concrete mix could be 3±1.5%, depending on the fineness of the fine aggregate particles, and it is recommended to choose the correct W/C ratio.</p> <p>To take advantage of the workability enhancing ability, a wet mixing, which is depending on the mixing conditions and mixer performance, of at least 90 seconds is recommended.</p> <p>To avoid excess of water in the concrete, the final dosage must begin only after 2/3 of the met mixing time.</p> <p>Effects of overdosing and underdosing: Significant overdosing will result in increased workability and setting time of the concrete. Underdosage will result in reduced workability (more difficult placing) and shorter setting times (reduced workable lifes). However, provided the concrete is cured effectively, ultimate strength and properties will not be affected.</p>
Restrictions	<ul style="list-style-type: none">▪ When using Sika® ViscoTight® a suitable mix design has been taken into account and local material sources should be trialled.▪ Sika® ViscoTight® should not be added to dry cement.▪ Sika® ViscoTight® should be added with the mixing water or introduced at the end of the mixing process.▪ In case it is used for SCC, the mix in which the product will be incorporated must be appropriately designed and the valid standards to control and check the performance and the stability of the produced mix design.▪ Before application, suitability tests must be performed.

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

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.

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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