

**Technical Data Sheet**  
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**Sika® ViscoCrete®-3110 ID**

# Sika® ViscoCrete® -3110 ID

## Concrete Admixture for High Flow / Self-Compacting Concrete

<b>Description</b>	Sika ViscoCrete-3110 ID is a third generation superplasticiser for concrete and mortar. It is particularly developed for the production of high flow concrete with exceptional flow retention properties. It meets the requirements for superplasticisers according to ASTM C494-86 Type G and BS 5075: Part 3.
<b>Uses</b>	<p>Sika ViscoCrete-3110 ID facilitates extreme water reduction, excellent flowability with optimal cohesion and strong self-compacting behaviour.</p> <p>Sika ViscoCrete-3110 ID is used for the following types of concrete:</p> <ul style="list-style-type: none"> <li>■ High flow concrete</li> <li>■ Self-compacting concrete (S.C.C.)</li> <li>■ Concrete with very high water reduction (up to 30 %)</li> <li>■ High strength concrete</li> <li>■ Watertight concrete</li> </ul> <p>The combination of high water reduction, excellent flowability and high early strength provides clear benefits in the above mentioned applications.</p>
<b>Advantages</b>	<p>Sika ViscoCrete-3110 ID acts by surface adsorption on the cement particles producing a sterical separation effect. Concrete produced with Sika ViscoCrete-3110 ID exhibits the following properties:</p> <ul style="list-style-type: none"> <li>■ Excellent flowability (resulting in highly reduced placing and compacting efforts)</li> <li>■ Strong self-compacting behaviour</li> <li>■ Extremely high water reduction (resulting in high density and strengths)</li> <li>■ Improved shrinkage and creep behaviour</li> <li>■ Increased carbonation resistance of the concrete</li> <li>■ Improved finish</li> </ul> <p>Sika ViscoCrete-3110 ID does not contain chlorides or other ingredients which promotes steel corrosion. Therefore, it may be used without restriction for reinforced and pre-stressed concrete construction.</p> <p>Sika ViscoCrete-3110 ID gives the concrete extended workability and depending on the mix design and the quality of materials used, self-compacting properties can be maintained for more than 1 hour at 30°C.</p>
<b>Product Data</b>	
<b>Type</b>	Aqueous solution of modified polycarboxylate copolymers
<b>Appearance</b>	Brownish
<b>Specific Gravity</b>	1.07 ± 0.01 kg/ltr
<b>Shelf Life &amp; Storage</b>	12 months from the date of production when stored in original unopened packaging in a cool, dry place
<b>Packaging</b>	210 kg drums and bulk
<b>Instruction for Use</b>	
<b>Dosage</b>	<ul style="list-style-type: none"> <li>■ For soft plastic concrete 0.2 - 0.6% by weight of binder</li> <li>■ For flowing and self compacting concrete (S.C.C.) 0.6 - 1.8% by weight of binder</li> </ul>



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<b>Dispensing</b>	<p>Sika ViscoCrete-3110 ID is added to the gauging water or simultaneously poured with it into the concrete mixer. For optimum utilisation of its high water reduction property, we recommend thorough mixing at a minimal wet mixing time of 60 seconds.</p> <p>The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time, to avoid surplus water in the concrete.</p>
<b>Concrete Placing</b>	<p>With the use of Sika ViscoCrete-3110 ID, concrete of the highest quality is produced. The standard rules of good concreting practice (production as well as placing) must also be observed with Sika ViscoCrete-3110 ID concrete.</p> <p>Fresh concrete must be cured properly.</p>
<b>Combinations</b>	<p>Sika ViscoCrete-3110 ID may be combined with the following products:</p> <ul style="list-style-type: none"> <li>■ Plastiment VZ</li> <li>■ SikaFume</li> <li>■ SikaAER</li> </ul> <p>Pre-trials are recommended if combinations with the above products are required. Please consult our Technical Service Department.</p> <p>To produce flowing and/or self-compacting concrete, special concrete mix design is required. Pre-trials are mandatory. Please consult our Technical Service Department.</p>
<b>Safety Precautions</b>	<p>Wear gloves and goggles during application. If in contact with skin, wash thoroughly with soap and water. If in contact with eyes or mucous membrane, flush immediately with plenty of water and seek medical attention without delay. Use with adequate ventilation.</p> <p>For more information, refer to our Material Safety Data Sheet (available upon request).</p>
<b>Legal Notes</b>	<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 product 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.</p>



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