

# Sikament NN

High Range Water-Reducing

Construction

<b>Product Description</b>	<b>Sikament NN</b> is a highly effective dual action liquid superplasticizer for the production of free flowing concrete or as a substantial water-reducing agent for promoting high early and ultimate strengths.
<b>Complies to</b>	<b>Sikament NN</b> complies to ASTM C 494 type F and B.S. 5075 part 3 for superplasticizer.
<b>Uses</b>	<p><b>Sikament NN</b> is used as a superplasticizer in the production of free flowing concrete such as</p> <ul style="list-style-type: none"> <li>- Slabs and foundations</li> <li>- Walls, columns and piers</li> <li>- Slender components with densely packed reinforcement</li> <li>- Textured surface finishes.</li> </ul> <p>It is also used as a water-reducing agent leading to high early strength concrete such as</p> <ul style="list-style-type: none"> <li>- Pre-cast concrete elements</li> <li>- Pre-stressed concrete</li> <li>- Bridges and cantilever structures</li> <li>- Concrete where formwork must be removed quickly or early loading applied.</li> </ul>
<b>Advantages</b>	<p><b>Sikament NN</b> provides the following properties:</p> <p><b><u>As a Superplasticizer</u></b>                      Workability is greatly improved.                      Increased placeability in slender components with densely packed reinforcement.                      Normal set without retardation.                      Significantly reduces the risk of segregation.</p> <p><b><u>As a Water Reducer</u></b>                      Up to 30% water reduction.                      16 Hours compressive strengths increased by up to 100%                      28 days strengths improved by 40%                      Increased water tightness.</p>
<b>Technical Data</b>	
<b>Type</b>	Modified Naphtalene formaldehyde sulphonate
<b>Colour</b>	Brown liquid
<b>Packaging</b>	250 Kg drums and 1100 Kg flow bins Bulk supply in tanker trucks possible on demand
<b>Storage condition</b>	Store in a dry minimum area between 5°C and 35°C. Protect from direct sunlight
<b>Shelf life</b>	12 months minimum from date of production if stored properly in original unopened packaging
<b>Density at 25°C</b>	Approximately 1.2 kg/it ± 0.01kg/it
<b>pH</b>	7-9
<b>Chloride content</b>	Nil (EN 934-2)





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### Application Details

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**Dosage** 0.8 - 3% by weight of cement depending on desired workability and strengths.  
**Sikament NN** is compatible with all types of Portland Cement, including S.R.C

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**Dispensing** **Sikament NN** 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). For Ready-mix concrete, Sikament NN is added to the concrete immediately prior to discharge and after further mixing has taken place for three minutes.

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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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**Remarks** 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.

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### Safety

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**Precautions** Accidental splashes to the skin must be washed off with water and soap. Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention without delay. Skin barrier cream, safety goggles and rubber gloves are recommended.

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**Ecology** Do not dispose of into water or soil but according to local regulations.

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**Toxicity** Non-toxic under the relevant Swiss health and safety codes.

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**Transportation** Non-hazardous.

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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 practice, the differences in materials, substratum 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request



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