



## PRODUCT DATA SHEET

# SikaSet® NC

### ACCELERATING ADMIXTURE

#### PRODUCT DESCRIPTION

SikaSet® NC is a non-chloride, water reducing and accelerating admixture. SikaSet® NC meets the requirements of ASTM C494 Types C and E admixtures.

#### WHERE TO USE

SikaSet® NC is an effective accelerator where high early strength concrete is desired and the use of calcium chloride is prohibited.

#### CHARACTERISTICS / ADVANTAGES

##### Accelerated Set Times and Strength Development:

SikaSet® NC may be used to accelerate set times and increase early strength gain where jobsite efficiency is important in order to meet construction deadlines. SikaSet® NC saves time and money by allowing faster finishing and stripping of concrete surfaces.

- Accelerated setting time across a wide range of temperatures
- Increased early and ultimate compressive and flexural strengths
- Insulation and heating costs during curing time are reduced

- Accelerated set times allow crews to finish concrete earlier, saving on labor costs
  - Earlier stripping and reuse of forms increases labor productivity
  - Accelerated strength gain allows earlier structural use and speeds completion time
- SikaSet® NC does not contain calcium chloride or any other intentionally added chlorides and will not initiate or promote the corrosion of steel members present in the concrete.

**Cold Weather Concreting:** At the recommended dosage rate SikaSet® NC will protect concrete from freezing in most sub-freezing temperature conditions and may reduce the need for cold weather concreting practices as specified in ACI 306 - *Standard Specification for Cold Weather Concreting*.

#### ENVIRONMENTAL INFORMATION

Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations

#### APPROVALS / CERTIFICATES

SikaSet® NC meets the requirements of ASTM C494 Type C and E.

## PRODUCT INFORMATION

<b>CSC MasterFormat®</b>	<b>03 05 00</b>
<b>Packaging</b>	205 L (54 US gal.) drum 1040 L (275 US gal.) IBC Bulk delivery
<b>Appearance / Colour</b>	Blue/Brown / liquid
<b>Shelf Life</b>	1 year when stored in dry warehouse conditions, at temperatures between +10 °C and +27 °C (50 °F and 80 °F).
<b>Storage Conditions</b>	Store at temperatures above +5 °C (40 °F). If frozen, thaw and agitate thoroughly to return to normal state. Protect from direct sunlight.
<b>Specific Gravity</b>	Approx. 1.4
<b>Recommended Dosage</b>	<p>To accelerate set times dosage at the rate of 650-2940 mL/100 kg (10-45 fl. oz. per 100 lb) of cementitious material is recommended.</p> <p>When used to protect concrete from freezing, dosage will vary with different brands of cement and ambient temperatures and higher dosages may be necessary. Sika recommends that trial mixes be performed to determine the most efficient dosage.</p> <p><b>Note:</b> SikaSet® NC will accelerate the setting time before loss of concrete heat but is not considered as an anti-freeze.</p> <p>When using at a rate of 1040 mL/100 kg or more, adjust mixing water accordingly. Dosage rates outside the recommended range may be used where specialized materials such as microsilica are specified, extreme ambient conditions are encountered or unusual project conditions require special consideration. In this case, contact your Sika Canada Technical Sales Representative for further information.</p>
<b>Mixing</b>	<p><b>Mixing</b> Add the correct amount of SikaSet® NC at the concrete plant. The admixture may be added manually or by automated dispenser directly into the sand or into the water line at the batch plant.</p> <p><b>Combination with other admixtures:</b> SikaSet® NC is highly effective as a single admixture or in combination with other Sika® admixtures. Add the correct amount of SikaSet® NC at the concrete plant. The admixture may be added manually or by automated dispenser directly into the sand or into the water line at the batch plant.</p> <p><b>Clean Up</b> Use personal protective equipment (chemical resistant goggles/gloves/clothing). Without direct contact, remove spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable environmental regulations.</p>
<b>Restrictions</b>	<ul style="list-style-type: none"><li>▪ When used in combination with other admixtures care must be taken to dispense each admixture separately into the mix.</li><li>▪ Do not mix with dry cement.</li><li>▪ Field evaluations should be carried out to determine the minimum ambient and concrete temperature required, and the optimum dosage for the desired setting time and strength performance.</li><li>▪ Appropriate, sound curing practices must be followed to protect fresh concrete from excessive heat loss in extreme weather conditions.</li></ul>

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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### **Other locations**

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

### **Product Data Sheet**

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