

# Sika<sup>®</sup> Retarder N

## Re- Set Retarder

Construction

<b>Description</b>	Sika <sup>®</sup> Retarder N is used to retard the setting time of the concrete to allow concreting under conditions of high ambient temperatures and placing of mass concrete. It is designed to be used for pumped, prestressed and structural concrete.
<b>Uses</b>	<ul style="list-style-type: none"> <li>• Increases the setting time of concrete</li> <li>• Maintains workability</li> <li>• Used in high temperatures</li> <li>• Excellent for large concrete pours.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>• Prevents cracks in concrete where the formwork deforms.</li> <li>• Minimises the risk of cold joints.</li> <li>• After the initial retardation, the rate of hardening proceeds at a rate equivalent to, or greater than, unretarded normal concrete.</li> <li>• Delivery of concrete can be made over long distances from the premix concrete plant.</li> </ul>
<b>Storage and Shelf Life</b>	Stored at temperatures between 5°C and 35°C in unopened original containers protected from direct sunlight and frost, shelf life is at least one (1) year.
<b>Application</b>	
<b>Dosage</b>	<p>The effect of Sika<sup>®</sup> Retarder N depends on a number of factors such as cement type, ambient temperature and mix design. The optimum dosage should be determined by site or laboratory tests with the particular concrete mix design.</p> <p>The rate of addition is generally in the range of: 200ml ± 100ml per 100kg of cementitious materials.</p> <p>Note: For dose rates higher than 400 ml/100kg please refer to your Sika representative.</p>
<b>Mixing</b>	Sika <sup>®</sup> Retarder N should be added during the concrete mixing process at the same time as the mixing water.
<b>Application Method</b>	Concrete mixed with Sika <sup>®</sup> Retarder N is transported to site in premix trucks. Concrete should be placed according to good concrete practice and proper curing procedures should take place.
<b>Specification Type</b>	<p>Sika<sup>®</sup> Retarder N meets and exceeds all requirements of Australian Standard 1478.1-2000 for Set Retarding Admixture (Re).</p> <p>Queensland Government Department of Main Roads approved.</p>

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**Technical Data (Typical)**


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<b>Form</b>	Liquid - selected carbohydrates
<b>Colour</b>	Brown
<b>Density (20°C)</b>	1.05 kg/litre approx.
<b>pH Value (20°C)</b>	approx 9 - 11
<b>Chloride Content</b>	No added chlorides
<b>TEA Content</b>	Less than 0.025% by weight of cementitious material when used at 400 mls per 100 kg total cementitious material, assuming 300 kg/m <sup>3</sup> of cementitious material.
<b>Air Entrainment</b>	May slightly increase air content when used with water reducers.
<b>Compatibility with Cement</b>	All types of cement
<b>Packaging</b>	20 litre drum 205 litre drum Bulk deliveries

<b>Important Notes</b>	<ul style="list-style-type: none"> <li>• When using Sika<sup>®</sup> Retarder N site trials are always recommended to achieve best results.</li> <li>• Increase in dosage rate will cause an increase in the setting time. If this occurs, do not change to an accelerator. A severe overdose may delay the setting time of the concrete to detrimental extent.</li> <li>• When using with other admixtures, check their compatibility first.</li> </ul>
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<b>Handling Precautions</b>	<ul style="list-style-type: none"> <li>• Avoid contact with skin and eyes.</li> <li>• Wear protective gloves and eye protection during work.</li> <li>• If skin contact occurs, wash skin thoroughly.</li> <li>• If in eyes, hold eyes open, flood with warm water and seek medical attention without delay.</li> <li>• A full Material Safety Data Sheet is available from Sika on request.</li> </ul>
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<b>Important Notification</b>	<p>The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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, 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. 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.</p>
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PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

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