

# Sikament<sup>®</sup> Eco 3Re

## WRRRe – Water Reducing Set Retarding Admixture

Construction

<b>Description</b>	Sikament Eco 3Re is a water reducing set retarder specifically formulated to produce concrete with improved water reduction and extended slump life while retarding the setting time of the mix. Sikament Eco 3Re combines the benefits of a normal water reducer and a high range water reducer allowing for the ease of obtaining and controlling concretes with 80-130 mm slumps.
<b>Uses</b>	Sikament Eco 3Re is suitable to produce low to medium performance concrete. It helps in greater water reduction, flowability and increased bleed water characteristics.
<b>Advantages</b>	The use of Sikament Eco 3Re in concrete improves the following properties <ul style="list-style-type: none"> <li>• Higher water reduction achieved, results in high density more impermeable concrete.</li> <li>• A combination water reducer retarder – excellent for hot conditions</li> <li>• Increase bleed characteristics with allows for an improved surface finish</li> <li>• Improved shrinkage and creep behaviour</li> <li>• Economical due to cement reduction</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. Depending on storage conditions the shelf life may be higher than stated. Please check with your Sika representative for a shelf life exceeded product.
<b>Instructions for Use</b>	
<b>Dosage</b>	Typical dosage for general concrete production is between 250-800 mls per 100 kg of total cementitious material. Optimum dosage depends on site conditions, job conditions, mix constituents and desired plastic and hardened properties. Laboratory and field trials are essential in determining the optimum dosage.
<b>Mixing</b>	Sikament Eco 3Re may be added to the mix with the initial batching water, however for best results Sikament Eco 3Re should be added after the cement has been “wet out” by the initial batch water. We recommend that the concrete should be thoroughly mixed for 60 seconds per cubic metre of concrete.  Add the remaining gauging water progressively after at least 2/3 wet mixing time to achieve the desired consistency.
<b>Application Method</b>	Place concrete according to good concrete practices with proper curing procedures.
<b>Specification Type</b>	Sikament Eco 3Re meets and exceeds all requirements of Australian Standard AS1478.1-2000 for a Water Reducing Set Retarding Admixture (WRRRe).  Queensland Government Main Roads approved.

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**Technical Data (Typical)**


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<b>Form</b>	Aqueous solution of modified polycarboxylates and carbohydrates
<b>Colour</b>	Green
<b>Density (20°C)</b>	1.06 kg/litre approx.
<b>pH Value (20°C)</b>	5.0 ± 1.0
<b>Chloride Content</b>	No added chlorides
<b>TEA Content</b>	Does not contain Triethanolamine
<b>Air Entrainment</b>	May slightly increase air content of concrete
<b>Packaging</b>	20 litre pail 205 litre drum Bulk deliveries

<b>Important Notes</b>	<ul style="list-style-type: none"> <li>• When using Sikament® Eco 3Re, site trials are always recommended to achieve the best results.</li> <li>• Please check compatibility when using with other admixtures.</li> <li>• Do not use with naphthalene based admixtures.</li> <li>• For additional information, please contact your local Sika Representative.</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 Australian version 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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