

# Sika FerroGard<sup>®</sup> 901

## Corrosion Inhibiting Liquid Admixture

Construction

**Description** Sika FerroGard<sup>®</sup> 901 is a liquid admixture for reinforced concrete and mortar. It acts as corrosion protection for reinforcing steel embedded in concrete, increasing the life expectancy of exposed building elements.

**Uses** Sika FerroGard<sup>®</sup> 901 is suitable for reinforced concrete subject to potential corrosion. Specifically, it will protect reinforcing steel against chloride induced corrosion.

Fields of application

Reinforced concrete:

- Roads
- Bridges
- Tunnels
- Retaining walls
- Industrial plants
- Multi-storey car parks, etc.

**Advantages**

- Sika FerroGard<sup>®</sup> 901 is used to influence the anodic and cathodic reaction of the reinforcing steel in concrete. The product forms a film on the steel surface which delays the onset of corrosion and reduces the rate of corrosion.
- It acts as corrosion protection for embedded reinforcing steel, especially from the influences of chloride ions.
- Can be used to protect reinforcing steel from potential corrosive materials used in concrete mix, i.e. beach or bay sand.
- Retards the destructive influences of reinforcement corrosion in concrete.
- Sika FerroGard<sup>®</sup> 901 is a combination of organic and inorganic inhibitors.

**Storage and Shelf Life** Stored in unopened original containers, protected from direct sunlight and frost, at temperatures between 5°C and 35°C, shelf life is at least one (1) year.

### Instructions for Use

**Mixing** Sika FerroGard<sup>®</sup> 901 can be added to the pre-mix concrete at two stages. It can be mixed into the concrete with the gauging water, or added at the same time as the water into the concrete mixer at the batch plant.

It may also be added to the concrete in the transit mixer, at the point of discharge. In this case, an additional mixing time of at least 1 minute per m<sup>3</sup> of concrete must be observed. Before discharging the concrete, check visually for uniform consistency. Under no circumstances should Sika FerroGard<sup>®</sup> 901 be mixed with dry cement.

Sika FerroGard<sup>®</sup> 901 may be combined with the ViscoCrete<sup>®</sup> superplasticisers, but pre-trial tests are always recommended.

**Specification Type** Sika FerroGard<sup>®</sup> 901 meets and exceeds all requirements of Australian Standard 1478.1-2000 for (SN).

Queensland Government Department of Main Roads approved.



Sika<sup>®</sup>

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**Technical Data (Typical)**


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<b>Form</b>	Liquid containing organic and inorganic substances.
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<b>Colour</b>	Green liquid
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<b>Density (20°C)</b>	1.06 kg/l approx.
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<b>pH Value (20°C)</b>	10 ± 1.0
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<b>Chloride Content</b>	No added chlorides
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<b>TEA Content</b>	Does not contain triethanolamine
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<b>Air Entrainment</b>	Does not affect air content
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<b>Dosage</b>	3-4% by weight of cement
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<b>Packaging</b>	20 litre pails 205 litre drums Bulk deliveries
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<b>Important Notes</b>	<ul style="list-style-type: none"> <li>• Sika FerroGard® 901 is not a curing agent for reinforced concrete or mortar.</li> <li>• Frozen Sika FerroGard® 901 may be used again after slow thawing at room temperature and intensive stirring.</li> <li>• Material is non-hazardous, is safe to transport and is non-toxic.</li> </ul>
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<b>Handling Precautions</b>	<ul style="list-style-type: none"> <li>• When handling, wear goggles and rubber gloves. If it comes in contact with the skin, wash with soap and water. If it comes in contact with eyes or mucous membrane, flush immediately with plenty of warm water and seek medical attention without delay.</li> <li>• Do not dispose of products into soil or water.</li> <li>• A full Material Safety Data Sheet is available from Sika upon 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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