

# Sika® FerroGard® -901

## Corrosion Inhibitor

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**Description** Sika FerroGard-901 is a liquid concrete admixture on the basis of our Sika FerroGard Technology for reinforced concrete and mortar. It acts as corrosion inhibitor for rebars embedded in concrete. By using Sika FerroGard-901, the life expectancy of exposed building parts will be substantially increased.

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**Uses** Sika FerroGard-901 is especially suitable for reinforced concrete subjected to danger of corrosion. It specifically protects from chloride induced corrosion.

*Fields of application are:*

- Concrete roads
- Bridges
- Tunnels
- Retaining walls
- Industrial plants
- Parkdecks in multi storey car parks etc.

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**Advantages** By using Sika FerroGard-901 the anodic and cathodic reaction of the electrochemical corrosion process is being influenced. The product forms a film on the steel surface which delays the onset of corrosion and reduces the rate of corrosion.

The following advantages can be achieved by using Sika FerroGard-901:

- Acts as corrosion protection for embedded reinforcing steel, especially from the influences of chloride effects.
- Protects concrete from the destructive influences of reinforcement corrosion.
- Does not have any negative influence on the properties of fresh and hardened concrete.
- Sika FerroGard-901 is a combination of organic and inorganic inhibitors.

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**Test report** Mott MacDonald, Evaluation of Sika FerroGard, Ref. 26'063/001 Rev. A April 1996.

### Technical Data

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**Composition** Nitrogen containing organic and inorganic substances.

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**Appearance** Green liquid

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**Density** 1.06 kg/l

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**pH-Value** 10 ± 1

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**Storage** Store in unopened original containers protected from direct sunshine and frost, at temperatures between +1°C and +35°C.

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**Shelf life** Shelf life is at least 18 months from date of production.

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**Packaging** 180 kg drums



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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 within their shelflife. 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 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 or can be accessed in the Internet under „www.sika.ch/bauchemie“.

## Application

<b>Dosage</b>	Recommended dosage: 12 kg/m <sup>3</sup> concrete.
<b>Addition</b>	<p>Sika FerroGard-901 is being mixed with the gauging water or added at the same time into the concrete mixer. 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> concrete must be observed. Before discharging it, check concrete visually for uniform consistency.</p> <p>The quantity of Sika FerroGard-901 should be taken into consideration when determining the quantity of water for a specific W/C ratio.</p> <p>Sika FerroGard-901 is <b>not</b> to be mixed with the dry cement.</p>
<b>Concrete placing</b>	When using Sika FerroGard-901, high quality concrete is being produced. General rules of good concrete manufacturing- and placing- practice must also be observed when producing concrete with Sika FerroGard-901. Optimal curing of the fresh concrete must also be practiced.
<b>Combinations</b>	<p>Sika FerroGard-901 may be combined with the following Sika products:</p> <ul style="list-style-type: none"> <li>- Sikament superplasticisers</li> <li>- Sika Fro-V5-A</li> <li>- Silicafume based products of the Sikacrete/Sikafume types</li> <li>- Sika Retarder and Sika Retardol-25</li> </ul> <p>Pre-trials are always recommended.</p>
<b>Important</b>	Frozen Sika FerroGard-901 may be used again after slow thawing at room temperatures and intensive stirring.

## Safety Instructions

<b>Safety precautions</b>	Wear goggles and rubber gloves. In contact with skin wash with soap water. In contact with eyes or mucous membrane flush immediately with plenty of warm water and seek medical attention without delay.
<b>Ecology</b>	Do not dispose of into soil or waters but according to local regulations.
<b>Toxicity</b>	Non-toxic under the relevant Swiss Health and Safety Codes.
<b>Transport</b>	Non-hazardous.



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