

BUILDING PRODUCT INFORMATION SHEET

Sika® FerroGard®-901 S

Corrosion inhibiting concrete admixture

DESCRIPTION

Sika® FerroGard®-901 S is a liquid concrete admixture based on Sika® FerroGard® technology for use in reinforced concrete and mortar. It acts as a corrosion inhibitor for the steel reinforcement. By using Sika® FerroGard®-901 S, the life expectancy and durability of reinforced concrete can be substantially increased.

USES

Sika® FerroGard®-901 S is designed for reinforced concrete particularly at risk of corrosion. It specifically provides protection from chloride-induced corrosion.

Typical uses are in:

- Concrete roads
- Bridges
- Tunnels
- Retaining walls

PRODUCT INFORMATION

Product identifier	Sika® FerroGard®-901 S
Place of manufacture	Aotearoa New Zealand
Composition	Amino alcohols
Packaging	200 litres
Shelf life	24 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.
Storage conditions	Store at temperatures between +1°C and +35°C. Protect from direct sun-light, frost and contamination.
Appearance and colour	Green liquid
Density	~1.05 kg/L
pH-Value	~9.5 at +20 °C

APPLICATION INFORMATION

Recommended dosage	12 kg/m ³
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- Industrial plants
- Multi storey car parks

FEATURES

By using Sika® FerroGard®-901 S both the anodic and cathodic reactions of the electrochemical corrosion process are reduced. The product forms a protective layer on the steel surface which delays the onset of corrosion and also reduces the corrosion rate. Sika® FerroGard®-901 S is a combination of organic corrosion inhibitors. The following advantages can be achieved using Sika® FerroGard®-901 S:

- Corrosion protection for embedded reinforcing steel, especially from chloride attack
- Protection from the destructive influences of reinforcement corrosion
- No negative influences on the properties of both the fresh and the hardened concrete

Compatibility	Sika® FerroGard®-901 S can be combined with many other Sika products. Note: Always conduct trials before combining products in specific mixes and contact Sika technical service for more information and advice.
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Sika® FerroGard®-901 S shall not be added to dry cement.

Sika® FerroGard®-901 S is 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 m³ concrete must be observed. Before discharging it, check the concrete visually for uniform consistency. The quantity of Sika® FerroGard®-901 S in the mix design should be taken into consideration when determining the quantity of water for a specific w/c-ratio.

TECHNICAL INFORMATION

Concreting guidance	The standard rules of good concreting practice, concerning production and placing, are to be followed. Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components. Fresh concrete must be cured properly and curing applied as early as possible.
Specific advice	Frozen Sika® FerroGard®-901 S can be used after slow thawing at room temperature, followed by intense stirring.

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	Note: This product on its own is not within the scope of the NZ Building Code. It is an additive / admixture for use in the manufacture of concrete, to enhance its performance properties in either its plastic or hardened state. When added to concrete that must comply with the NZ Building Code, and it used in accordance with Sika's technical literature, it will contribute to meeting the requirements of the following clauses: B1 Structure: Performance Clauses B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q) B1.3.4 B2 Durability: Performance clause B2.3.1-(a) not less than 50 years F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance statements	Performance B1.3.1, B1.3.2, B1.3.3 (a, b, f, h, m, q), B1.3.4: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete during the production phase it contributes to the hardened concrete meeting loading requirements arising from self-weight, imposed gravity loads, earthquake, wind impact, and the effects of creep and shrinkage over time. Performance B2.3.1 (a) 50 years: This product meets the requirements of AS1478.1 Chemical Admixtures for Concrete, Mortar and Grout. When added to concrete, mortar or grout during the manufacturing process it helps the hardened concrete to achieve its durability requirements and to remain serviceable for 50 years, or more. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 1998. Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

DESIGN REQUIREMENTS

Design requirements for concrete that contains Sika admixtures, or other concrete additives are the responsibility of the ready mixed concrete producer and/or the concrete design engineer.

MAINTENANCE REQUIREMENTS

Once added the Sika admixture / additive becomes an integral part of the hardened concrete, mortar or grout. Refer to the supplier of that product for their maintenance instructions.

BASIS OF PRODUCT DATA

All technical data in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing 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 the 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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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NZ BUILDING PRODUCT INFORMATION SHEET

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