

PRODUCT DATA SHEET

Sika® FerroGard®-901 SA

Corrosion Inhibiting Concrete Admixture

DESCRIPTION

Sika® FerroGard®-901 SA is a bipolar corrosion inhibiting 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 SA, the life expectancy and durability will be substantially increased.

Suitable for use in hot and tropical climatic conditions.

USES

Sika® FerroGard®-901 SA 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
- Industrial plants
- Multi Storey car parks

PRODUCT INFORMATION

Composition	Modified Amino Alcohol
Packaging	200 L drum or 1000 L flowbin
Shelf life	12 months from date of production if stored properly in undamaged and unopened, original sealed containers.
Storage conditions	Store in dry conditions at temperatures between +10°C and +40°C. Protected from direct sunlight and frost.
Appearance and colour	Blueish Liquid
Density	~1.04 kg/l at 25°C

FEATURES

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

- 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.
- Sika® FerroGard®-901 SA is neutral to hydrogen embrittlement of prestressed steel i.e. it neither enhances nor limits hydrogen embrittlement of prestressing steel.

APPLICATION INFORMATION

Recommended dosage	Recommended dosage: 12 kg per m ³ for any type of concrete Dosage as per test report of IIT Madras, 1 - 3% by weight of cement and water-to-cement (w/c) ratio should be less than 0.4
Dispensing	Sika® FerroGard®-901 SA 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 cubicmeter of concrete must be observed. Before discharging it, check the concrete visually for uniform consistency. The quantity of Sika® FerroGard®-901 SA in the mix design should be taken into consideration when determining the quantity of water for a specific W/C ratio. Sika® FerroGard®-901 SA is not to be mixed with dry cement.
Compatibility	Sika® FerroGard®-901 SA is compatible with Sika® Products. Compatible with all types of cements and cementitious materials. Important: Always conduct trials before combining products in specific mixes and combinations.

BASIS OF PRODUCT DATA

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

ECOLOGY, HEALTH AND SAFETY

User must read the most recent Sika corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains 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 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.

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ISO 9001, 14001, 45001 – SGS
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Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
Sika MB Construction Chemicals LLC
Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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