

## PRODUCT DATA SHEET

# Sika® FerroGard®-901 (IN)

### CORROSION INHIBITING CONCRETE ADMIXTURE

#### DESCRIPTION

Sika® FerroGard®-901 (IN) 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 (IN), the life expectancy and durability will be substantially increased.

#### USES

Sika® FerroGard®-901 (IN) 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

#### CHARACTERISTICS / ADVANTAGES

By using Sika® FerroGard®-901 (IN) 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.

Sika® FerroGard®-901 (IN) is a combination of organic corrosion inhibitors.

The following advantages can be achieved using Sika® FerroGard®-901 (IN):

- 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 (IN) is neutral to hydrogen embrittlement of prestressed steel i.e. it neither enhances nor limits hydrogen embrittlement of prestressing steel.

#### PRODUCT INFORMATION

Composition	Modified Amino Alcohol
Packaging	20 kg, 200 kg
Appearance / Colour	Blueish Liquid
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.
Density	1.04 kg/l @ 25°C
pH-Value	~9.5 at +20 °C

#### 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.

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## APPLICATION INFORMATION

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### Recommended Dosage

Recommended dosage:

OPC , W/C < 0.4 , Dosage : 1 - 3%

OPC+Cementitious materials, PPC, PSC, W/C < 0.4, Dosage: 0.5 - 3%

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### Compatibility

Compatible with all types of cements and cementitious materials.

Important: Always conduct trials before combining products in specific mixes and combinations.

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### Restrictions

Sika® FerroGard®-901 (IN) shall not be added to dry cement.

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## APPLICATION INSTRUCTIONS

### DISPENSING

Sika® FerroGard®-901 (IN) 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 m<sup>3</sup> concrete must be observed. Before discharging it, check the concrete visually for uniform consistency. The quantity of Sika® FerroGard®-901 (IN) in the mix design should be taken into consideration when determining the quantity of water for a specific W/C ratio.

Sika® FerroGard®-901 (IN) is not to be mixed with dry cement.

### FURTHER INFORMATION

If frozen Sika® FerroGard®-901 (IN) may be used again after slow thawing at room temperature and intensive stirring.

### BASIS OF PRODUCT DATA

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

### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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## 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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

### 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.

#### Product Data Sheet

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