

IRONSAFE

Deep rustproofing agent for rebars on concrete structures



TECHNICAL SPECIFICATIONS



FIELD OF APPLICATION



APPLICATIONS



Description

IRONSAFE is a colourless liquid in aqueous solution formulated organic anti-oxidising compounds. When applied to the surface of a concrete structure, IRONSAFE penetrates deeply (through the concrete cover) and reaches the rebars on which it acts as an anode and cathode corrosion inhibitor.

IRONSAFE is able to:

- Penetrate deeply into the concrete.
- Stop the oxidation under way.
- Preventing future corrosion.
- Exert a lasting anti-corrosive action.

IRONSAFE does not alter the appearance of the treated object nor its general physical-chemical behaviour.

IRONSAFE does not contain nitrites.

Colour

IRONSAFE is a transparent yellowish liquid.

Field of application

IRONSAFE is specially formulated as a corrosion inhibitor for reinforcements inside concrete.

It is thus highly suitable for:

- For restructuring fronts of roofs and balconies, exposed concrete walls, pillars and beams in civil buildings.
- For the maintenance of shed facades with exposed concrete slabs, before the painting cycle.
- In preventing corrosion of rebars in road infrastructures (bridges, flyovers and, in general, all types of reinforced concrete structures).

Advantages

- IRONSAFE is easy to use and offers guaranteed results.
 - IRONSAFE allows for preventing deterioration of the concrete before it becomes impossible to restore the structure's original performance (unless considerable sums are spent on restructuring).
 - IRONSAFE makes the refurbishment of concrete exposed to the corrosive action of sea salt safe and guaranteed.
 - IRONSAFE makes the refurbishment of concrete in highly aggressive chemical environments (galvanising plants and factories that process acidic products) safe and guaranteed.
- IRONSAFE is not dangerous and does not contain nitrites.

General preparation of the laying support

- Perform all the relevant restructuring operations (demolition of the deteriorated zones, treatment of exposed bars with CEM-OX, see Technical Sheet, reconstruction of the demolished parts, etc.).
- Completely remove any protective paints.
- Verify that the concrete does not have its pores closed by concealed treatments.

This test is carried out by spraying water on the surface of the structure and verifying whether the typical dark grey marks found on wet concrete appear.

Preparing the product

- IRONSAFE is ready-to-use
- Shake the container before drawing the product.

IRONSAFE

Application of the product

- Apply in 2 or more abundant coats using a roller, brush or by spraying.
- For the proper efficacy of the treatment with IRONSAFE, at least 0.30–0.40 l of product must be added to the total consumption for every m² of surface.

This amount is sufficient to allow the product to penetrate for a few cm into the concrete cover.

The interval between successive coats depends on the structure's absorption speed.

To establish when to make a new application, simply observe when the surface dries.

Consumption

type of application	minimum consumption	maximum consumption	UoM	dilution
-	0,3	0,4	L/m ²	-

Cleaning of tools

- Rinse the tools and containers used for the application several times with water.

Useful application tips

- Apply at ambient temperatures between +1 and +35°C.
- Avoid applying the product if sub-zero temperatures are forecast within the next 24 hours.
- The product is not harmful to human health; nonetheless, read the Safety Sheet before use.

Technical data

► PRODUCT IDENTIFICATION DATA	UoM	value
Density at 23°C, EN ISO 2811-1	kg/L	1,025 ± 0,004
pH (potentiometric method) at 23°C, ISO 4316	-	9,2 ± 0,2
Kinematic viscosity (ISO cup 2, 23°C), EN ISO 2431	s	30 ± 2
Appearance	-	Transparent straw-yellow liquid
Odour	-	Slightly ammoniacal

Storage of the product

- 60 months in the closed original packaging, in a dry and covered place away from direct sunlight, at a temperature between +5°C and +35°C.
- Protect the product against frost.

Packages

VARIANT	PACKAGE	ADR	PACKAGES PER PALLET	COMPONENTS
-	4 taniche da 5 L	NO	24 scatole	
-	20 l tank	NO	24 taniche	

Legenda ADR:

NO = merce NON PERICOLOSA

LEGAL NOTES

Advice on how to use our products corresponds to the current state of our knowledge and does not involve the assumption of any guarantee and / or responsibility for the final result of the work. They do not refore exempt the customer from the responsibility of verifying the suitability of the products for the use and the prefixed purposes through preventive tests. The website www.nordresine.com contains the latest revision of this datasheet.

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EDITION

Issue date: 22.12.2003

Revision: 14.03.2018