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Fully paid-up share capital  
€ 3.000.000,00  
Legal title  
no. 26 dated 20 May 1944

COMPANY WITH  
QUALITY SYSTEM  
CERTIFIED BY DNV  
ISO 9001

## 13110001 FERRINOXAL INDUSTRIALE BASE NEUTRA anti-rust industrial paint with zinc phosphates



Nitro-resistant anti-rust coating formulated with zinc phosphates suitable for industrial applications. Effective for coating machinery and metal shelving in mechanical engineering companies. Ideal for finishing with nitro or fast-drying enamels.



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<b>Date of revision</b>	30/07/2020
<b>Composition</b>	A single-component anti-rust base coat in zinc phosphate solvent, formulated with modified alkyd resins with oxidative cross-linking.
<b>Main properties</b>	<ul style="list-style-type: none"><li>• quick drying</li><li>• good anti-corrosive power</li><li>• good adherence on metal</li></ul>
<b>Applications</b>	As a base coat, it is ideal for all repairs and bodywork for industrial vehicles and the mechanical engineering industry, farming machinery, machine tools, etc.
<b>Colour</b>	It can be coloured with the Colormaker Professional tinting system. The colours are available in the Colormaker Lab software.

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Technical specifications	Reference	UoM	Value
(data measured at 20°C, with 65% R.H.)			
Specific weight (pycnometer)	C022	g/cm <sup>3</sup>	1.410 ± 0.10 (coloured)
Ford viscosity no. 8	C076	s	12 ± 2 (coloured)
Appearance of the film			matt
Dry residue	C033	%	68 ± 2 (coloured)
Dry residue by volume (A+B)		%	49 ± 2 (coloured)
Recommended DFT	ISO 2808	µm	50 ± 5
Recommended wet thickness		µm	90–110
Theoretical coverage		m <sup>2</sup> /l	9–11 at the recommended thickness.
Practical coverage			Consider an appropriate loss factor.

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### Method of use

. Surface and application conditions	Ambient temperature min. +5°C / max. +35°C and R.H. < 80%. Temperature of the support min. +5°C / max. +35°C and at least 3°C above the dew point.
. Application method	By spraying, airless or airmix

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- . Thinner 91200004
- . Dilution Airless 5–10 %, airmix 15–20 %, brush 5–7%.
- . Airless application Recommended Usable nozzles 0.011-0.017".  
Misting pressure 120–180 atm.  
Compression ratio 30:1 (min).  
The data for airless spraying is purely indicative and subject to adjustments.  
The filters must be suited to the nozzle used.
- . Application by spraying Airbrush:  
Nozzle diameter: 1.8 mm  
Nozzle pressure: 3–4 atm
- . Brush application Suitable Only over reduced areas.  
Normally it is possible to achieve 30–35 microns.
- . Mixing Mix the product with care, adding the thinner gradually until the desired application viscosity is obtained.
- . Hardening time

Values referred to recommended DTF and 65% R.H. Considerable thicknesses, insufficient ventilation or low temperatures require longer hardening times.

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#### Precautions and warnings

- only the specified thinners must be used; refer to the "Method of use" technical data sheet section under the item "Thinner". The use of other solvents, especially for recovery, may impair the chemical-physical characteristics of the varnish film;
- try to prevent condensation effects during or immediately after application (including weather conditions), to ensure that the varnish film forms correctly;
- do not apply to a thickness of more than 90–100 microns DFT per coat, to avoid the formation of superficial defects and/or delays in drying;
- this product cures with difficulty below 5°C; for optimal performance of the varnish film, temperatures above 10°C are recommended;
- if you wish to coat over FERRINOXAL INDUSTRIALE BASE NEUTRA after a long time, be sure to remove any dirt and/or contaminants; depending on the paint cycle, sanding may be required.

#### Cleaning of equipment

Clean the equipment immediately after use with the following thinner: Diluente Nitro 92100012 or Diluente per Smalti Sintetici 91200004.

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#### Surface preparation

##### IRON - STEEL

The surface should be clean, dry and free from contaminants. Before applying any coating product, one should first assess the most appropriate treatment in accordance with ISO 8504:2000.

Oil and grease must be removed in accordance with SSPC-SP1 (cleaning with solvents).

**Sandblast** with appropriate abrasives to grade Sa 2% (ISO 8501-1:2007) or SSPC-SP10 - NACE No. 2.

We suggest a roughness profile (Rz) of 35–50 pm (ISO 8503-4:2012).

If any rusting occurs between sandblasting and application, repeat the sandblasting.

For moderately aggressive environments or for maintenance jobs, brush with a



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<b>Application cycle</b>	machine tool to grade St3 (ISO 8501-1:20079). Apply one or two coats directly onto the duly-prepared steel surface.
<b>Compatibility of cycles</b>	FERRINOXAL INDUSTRIALE BASE NEUTRA can be coated over with itself. After applying FERRINOXAL INDUSTRIALE BASE NEUTRA, the recommended finishes are quick-drying enamels of the series 8370, 8380, 8450, 8460, and nitro-synthetic enamels of the series 4230 and 4310. For further details, contact the Colorificio Sammarinese S.p.A. Technical Support Service.
<b>Storage</b>	Store between +10°C and 35 °C. The product can be stored for 12 months in its original packaging. After this time, you must check the condition of the product.
<b>Warnings and safety</b>	This product is provided only for professional use and for professional application technicians. We recommend always referring to the product Safety Data Sheets for details relating to health and safety and for the storage and disposal rules.

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This information is the result of our practical experience but is purely indicative. For more detailed information, please contact our technical support service. This sheet cancels and substitutes any previous editions.

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