

PRODUCT DATA SHEET

ZN 29
Modified vinyl enamel

CHARACTERISTIC Enamel matt suitable for painting systems of artifacts in interior and exterior, water repellent, easy to apply, ideal for professional use as it has high adhesion on different types of undercoat. It is formulated with vinyl resins modified solvent-based, which guarantee high protection in exterior in conditions of extreme exposure to the weather elements, in industrial and marine environments. Exerts excellent adhesion on surfaces such as hard plastics, alloys, galvanized iron, aluminum and anti-corrosive undercoats of different nature.

USE It is suitable for decoration and protection from the elements of new structures or structures undergoing maintenance, eg, windows, railings, industrial equipment, structures of boats made from iron supports suitably pretreated. Objects made of galvanized steel, aluminum, alloys, plastic, can be applied without pre-treatment, directly on the artifact.

PROPERTY OF THE PRODUCT

	VALUE	METHOD
Application temperature	<+120 °C	
Flash point	27°C	
Solid by volume	48% ± 2	

SPECIFICATION DATA

	VALUE	METHOD
Specific weight	1000-1300 g/l	Internal PF3
Gloss	< 10	Internal PF6
Drying Time	Fully 8 h	Internal PF2

THICKNESS AND YIELD

	Min.	Max	Recommended
Thickness of dry film, µm	30	60	45
Thickness of wet film, µm	63	125	94
Theoretical yield, m ² /l	15,9	8	10,6
Theoretical yield, m ² /kg	13.8	7	9.2

STORAGE

Product is stable till one year as long as it is kept in original and unopened buckets at temperature between +5°C e +30°C.

COLOUR

The range of colors can be chosen in shades of RAL. Between one production and the other, tint may be slightly different, it is therefore important to finish the job with the same batch.

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PREPARATION OF SURFACE

The treatment of the surface to be coated is of primary importance and affects the performance of the coating cycle.

A good and correct preparation of the substrate is a guarantee of quality on the duration of the coating: a high quality product applied on a poor substrate or on substrate inadequately treated is destined to an early wear, characterized by possible alteration of the coating itself.

HOT GALVANIZED STEEL

It is important to remember that the galvanized sheet must be passivated leaving the products exposed to atmospheric agents for at least two months; then proceed with a light sanding to remove the superficial oxidation patina formed and degrease the surfaces with Nitro NV 5000 thinner.

Alternatively, a light silica sandblasting is recommended.

ALUMINUM AND LIGHT ALLOYS

Perform a light sanding with P180 P220 sanding paper. Clean the surface to be treated with Nitro NV 5000 thinner and make sure it is dry and free from silicone, waxes, greases and foreign substances in general.

COATED SURFACES

With primer: it can be painted if the substrate is clean and free of dirt, oil, grease, and the application falls within the maximum re-coat time of the primer. If cleaning is required, perform pressure washing grade Wa 2 (surface free of oil, grease, salt, dirt).

With complete finishing coat: if undamaged compatible and non-chalky perform cleaning from any oil and grease with detergent, then run sanding surface followed by pressure washing to remove dust and salts.

Rusty coating: perform mechanical preparation St2 or St3 followed by pressure washing to remove oil, grease, dust and salt or sand blasting Sa2 or Sa2½; then restore the thickness of primer.

Localized maintenance: perform mechanical preparation St2 or St3 followed by pressure washing to remove oil, grease, dust and salt or sand blasting Sa2 or Sa2½. Round off the edges of the well anchored painting and restore the system in the original layers and thicknesses.

TOOLS

Conventional or airless spray (with high temperature and humidity <40% it is possible the formation of "dusting"); in this case use Diluente S 800, roller, brush with Diluente S800), roller, brush.

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APPLICATION	Thinning	Conventional or airless spray: 0-5% with thinner Nitro NV5000
	Application condition	Roller, brush: 0-5% with Diluente S800 +5°C +40°C >3°C at dew point
	Application by airless	Relative humidity: <70% Nozzle pressure: 15 MPa (150 kp/cm ² , 2100 psi). Nozzle: 0,28 - 0,38 mm (0,011 - 0,018") Angle range: 40 - 80°
	Application by conventional spray	Nozzle: 1,6 – 1,8 mm Angle range: 40 - 80° Air pressure: 3,5-4 kg/cm ²
	Thinner for washing	Thinner Nitro NV 5000

DRYING TIME

Dry time are purely indicative as it might be longer or shorter by keeping in consideration ventilation, humidity, thickness of the applied film. High thicknesses per coat and unfavorable environmental conditions slow down the drying and hardening depth.

DTF 40 micron

Surface temperature	23°C
Out touch	30'
Dry touch	1h
Full	8h
Minimum time of over application	1h

RECOMMENDED PRIMER

Steel: Sintetico Synthetic resistant recoating with nitro thinner.
Galvanized steel, aluminum, alloys: Directly.

Product	Coat	Wet Thickness	Dry thickness
Primer 40	1	95	60
Primer 40 HS ST	1	166	125
ZN 29	1	94	45
ZN 29	3	355	230
Total	1	95	60

RECOMMENDED SYSTEM

Industrial atmosphere

Product	Coat	Wet Thickness	Dry thickness
ZN 29	1	94	45
ZN 29	1	94	45
Totale	2	188	90

ALTERNATIVE SYSTEM

Product	Coat	Wet Thickness	Dry thickness
Crometal T.A	1	100	65
Crometal T.A	1	100	65
ZN 29	1	94	45
Total	3	294	175

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ZN 29**Modified vinyl enamel****INSTRUCTIONS**

To carry out the work in a proper way, it is needed to strictly follow the instructions for the preparation of the surfaces contained in the CAP Arreghini Books. The specification data and technical information have been calculated at +23°C with relative ambient humidity of 65%. In different conditions the data and the time intervals between the two phases of the above reported coating system may vary.

This technical information is intended as a rough guide. However, because of the enormous variety of media and application conditions, it is essential to check the suitability of the product and test the effectiveness on a sample.