

PRODUCT DATA SHEET

Z80
Modified vinyl enamel

CHARACTERISTIC Enamel 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 alkyd 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	< +80 °C	
Flash point	27°C	
Solid by volume	49% ± 2	
Brilliance 60°	50-60	

SPECIFICATION DATA	VALUE	METHOD
Specific weight	1100-1350 g/l	Internal PF3
Gloss	50-60	Internal PF6
Drying Time	Fully 24 h	Internal PF2

THICKNESS AND YIELD	Min.	Max	Recommended
Thickness of dry film, µm	30	60	40
Thickness of wet film, µm	63	125	83
Theoretical yield, m²/l	16	8	12
Theoretical yield, m²/kg	13.1	6,5	9,8

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.

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.

PRODUCT DATA SHEET

Z80**Modified vinyl enamel**

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.

COATED SURFACE

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 or Acquaragia VD 100.

PRODUCT DATA SHEET

Z80
Modified vinyl enamel

APPLICATION	Thinning	0-5% with Diluente S800 or Acquaragia VD 100
	Application condition	+5°C +40°C >3°C at dew point Relative humidity: <70%
	Application by airless	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	Diluente S800 or Acquaragia VD 100

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	4h
Dry touch	12h
Full	24h
Minimum time of over application	12h

RECOMMENDED PRIMER

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

RECOMMENDED SYSTEM

Industrial atmosphere

Product	Coat	Wet Thickness	Dry thickness
Z80	1	83	40
Z80	1	83	40
Total	3	166	80

On steel

Product	Coat	Wet Thickness	Dry thickness
Primer 15	1	95	60
Primer 15	1	95	60
Z80	1	83	40
Total	3	273	160

ALTERNATIVE SYSTEM

Product	Coat	Wet Thickness	Dry thickness
Crometal T.A	1	100	65
Crometal T.A	1	100	65
Z80	1	125	60
Total	3	325	190

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

PRODUCT DATA SHEET

Z80**Modified vinyl enamel**

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.