

POWERCAP

Water-based acrylic urethane enamel

DESCRIPTION

Enamel suitable for decoration and protection of wood, metal, plastic, in interior and exterior. Easy to apply, highly matt, with high compatibility and excellent adhesion on different types of substrate. Ensures a smooth finish with excellent resistance to weathering and mechanical stress.

It is formulated with water-based stable pigments and resins which provide maximum UV resistance and maximum protection outdoors with a non-yellowing film of enamel. It is also fast drying which guarantees a tough film with high water and scratching resistance. Provides good wetting of the wood pore with low fiber swelling so that it can be used directly on primers.

It is made with raw materials selected for low environmental impact, which ensure minimal emissions of VOCs in order to preserve the well-being and safety of its users and of those living in the environment.

It is ideal for applications in interior: the film, hard and tenacious, with low dirt retention, is highly resistant to washing and provides surfaces that can withstand heavy abrasion, allowing easy cleaning with antibacterial detergents and disinfectants (with a maximum strength after 10 days from application).

The product is suitable for satisfying the reg. 852/2004 for locations for processing and/or storage of foodstuff.

WATER RESISTANCE

The product dries and polymerises completely in 4-5 days under optimal conditions (+15+ 30 ° C with a humidity < 10% support and relative humidity <65%).

Put in work the artifact after 4-5 days of stabilization to avoid contact with rainwater or condensation (in the case of fog or humidity >85%) before complete polymerization which could cause glaze or blistering. This phenomenon, of a temporary nature, does not affect the strength of the product and will disappear with exposure under normal conditions after complete drying.

COMPOSITION

Acrylic-urethane resin in aqueous emulsion and selected pigments.

PROPERTIES OF DRIED FILM

	Class EN13300	Method	Value
Dirt retention	Very low	UNI 10792	$\Delta L \leq 3$
Wet brushing resistance	1	UNI EN ISO 11998	$L_{diff} < 5 \square$
Adhesion		Internal PF16	Excellent
Liquids resistance		Internal PF23-3	Water > 24h Oil > 24h Cream > 24h Detergent > 24h Alcohol < 0,5 h
Opacity (White)	1 (5 m ² /l)	UNI EN ISO	≥ 99.5

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Solids residue by weight

6504-3
Internal PF25

White 55-59%;
Coloured 40-45%

PERFORMANCE DATA

Density

Internal PF3

1000-1380 g/l,
depending on colours
over-coatable 3h;
Complete 8h

Drying times

Internal PF2

Coverage (White)

Internal PF11

> 90

Brilliance

Glossy
Satin
matt

Internal PF6

≥ 70 e ≤ 75
≥ 30 e ≤ 40
≥ 10 e ≤ 15

SHELF LIFE

1 year minimum, stored in its unopened original can at temperatures between +5°C and +30°C.

COLOUR RANGE

White and Black.

The range of colours can be extended using the Tintoretto and Ral with Arreghini Colors 16 system. The colour could vary slightly from one production batch to the next; it is therefore important to finish the job with the same batch.

TYPICAL USE

Is suitable for decoration and protection from the weathering, even with intense colours, new structures or undergoing maintenance, made from wooden substrates of different kinds, also galvanized metal supports, aluminium and alloys, plastics in rural atmosphere, marine or industrial, such as windows in general, radiators and painted structures.

If the product has been stored at low temperatures, it is advisable to bring it up to at least +15° C before applying. To promote distention in applications by brush apply the product in the right quantity (avoid layers too thin). During application and drying time, it is essential that the temperature is above +15° C and air humidity lower than 65%; It is also important that the environment is ventilated, to facilitate the evaporation of water. Please remember that layers of paint applied thicker than those indicated, or different environmental conditions can lead to a lengthening of the drying time, because the evaporation of water is slowed down.

Tools should be washed with water immediately after use.

TOOLS

Roller, Brush, Spray.

THINNING

Ready to use

COVERAGE

9-11 m²/l per coat.

APPLY

+15°C +30°C

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COATING SYSTEM

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.

New artifact of different wood species except those with very evident and deep pore as iroko, mahogany meranti, marine plywood

- 1.1 Sandpaper the wood with 220-250 grit paper;
- 1.2 Apply one coat of *Opakite W*, with thickness equal to 100-120 wet μm ;
- 1.3 After 6-8h brush or sandpaper with 240-280 grit paper;
- 1.4 Apply two coats of *POWERCAP* waiting 3 hours between a coat and the other.

Wood of different species with very evident and deep pore as iroko, mahogany meranti, marine plywood

- 2.1 Sandpaper the wood with 220-250 grit paper;
- 2.2 Apply one coat of *Classic W Bianco*;
- 2.3 After 2-3h proceed as described in point 1.2 and following

Wood of different species containing tannin or other colouring as oak, chestnut, hemlock, Russian larch

- 3.1 Sandpaper the wood with 220-250 grit paper;
- 3.2 Apply one coat of *Riplast F99*;
- 3.3 After 5-6 h proceed as described in point 1.2 and following

Iron

- 4.1 If new artifact, thoroughly clean and degrease with *Nitro NV5000*; If in maintenance of old artifact, remove with brush or scraper or sandpaper any flaking paint and rust;
- 4.2 If new artifact, after 2-3h apply two coats *Chromocap W* with a thickness equal to 70 dry μm waiting 4-6 hours between a coat and the other; if in maintenance of old artifact, apply one coat of *Chromocap W* on the interested part.
- 4.3 After 6-8h apply two coats of *POWERCAP* waiting 3 hours between a coat and the other.

Galvanized iron

- 5.1 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.
Apply two coats of *POWERCAP* waiting 3 hours between a coat and the other.
- 5.2 If in maintenance of old artifact remove with brush or scraper or sandpaper any flaking paint and rust, apply one coat of *Chromocap W* on the interested part and after 6-8h apply two coats of *POWERCAP* waiting 3 hours between a coat and the other.

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Aluminum and light alloys, plastics

- 6.1 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.
Apply two coats of *POWERCAP* waiting 3 hours between a coat and the other.
- 6.2 If in maintenance of old artifact remove with brush or scraper or sandpaper any flaking paint and apply two coats of *POWERCAP* waiting 3 hours between a coat and the other.
N.B. In the case of plastics, given the variety of applications, it is advisable to test adhesion specifications of the product on the material.

SPECIFICATION ITEM

Water-based acrylic-urethane enamel with solid residue 57% (white) or 43% (coloured), weather-resistant, washable with detergents and disinfectants used in the protection of wood, metal, plastic in interior and exterior with consumption of 200 ml/m².

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. 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. 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 can vary.