

TECHNICAL DATA SHEET  
**HYDRO ACRIL 48**  
 Water-based glossy enamel

**FEATURES**

Mono-component enamel, air-drying, suitable as a protective for metal substrates exposed in interior and exterior. It is characterized by excellent adhesion, hardness and flexibility. It is based on acrylic resins modified in an aqueous phase which have particularly good impermeability to water.

Its high quality guarantees the aesthetic and technical solution with an excellent level of finish and with maximum color resistance in exterior. The film, which is highly resistant to wet abrasion, and also allows easy cleaning with common detergents and antibacterial detergents (with a maximum strength after 10 days from the application) and therefore the product is suitable to meet the reg. 852/2004 for food storage on wood and iron substrates.

The high stretching properties and low tendency to sagging allow easy applications that permit a finish characterized by uniform thickness and adequate coverage of the edges. It is also characterized by rapid drying which allows a quick execution of the painting. Since it's water-based is particularly suitable for applications in poorly ventilated areas. It is formulated with raw materials selected for their low impact, reduced pollution and minimum emissions, so as to preserve the health and safety of users and people living in the environment.

**TYPICAL USE**

It is suitable for decoration and protection from atmospheric agents, even with intense colors, new structures or structures undergoing maintenance, based on metal supports also galvanized, aluminum and alloys, in a rural atmosphere plastic, marine or industrial environments, such as windows and fixtures, carpentry, railings in general, heaters.

In case in which the product has been stored at low temperatures it is advisable to bring it to at least 15 ° C before proceeding to the application. To promote good results in brush applications, apply the product in the right quantities (avoid too thin layers). During the application and the drying time, it is essential that the temperature is above 15 ° C and the air humidity lower than 65%; it is also important that the environment is aerated, to facilitate water evaporation.

It should be noted that greater thicknesses of paint applied to those indicated or different environmental conditions can cause a lengthening of the drying times, as it is slowed down water evaporation. Tools can be cleaned with water immediately after use.

On steel supports apply an anti-rust primer. It can be applied directly on galvanized steel, alloys, aluminum, plastic, fiberglass. Before being protected the galvanizing must have a period of oxidation weathering of 2-3 months.

**PROPERTY OF THE PRODUCT**

	<b>VALUE</b>	<b>METHOD</b>
Application temperature	< +80 °C	
Solid by volume	50±2%	

**SPECIFICATION DATA**

	<b>VALUE</b>	<b>METHOD</b>
Specific weight	1000-1150 g/l	Internal PF3
Gloss	70-80	Internal PF6
Drying Time	Fully 24 h	Internal PF2

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		Minimum	Maximum	Recommended
THICKNESS AND COVERAGE	Thickness of dry film, $\mu\text{m}$	40	70	50
	Thickness of wet film, $\mu\text{m}$	80	140	100
	Theoretical coverage, $\text{m}^2/\text{l}$	12,5	7	10
	Theoretical coverage, $\text{m}^2/\text{Kg}$	11,4	6,5	8,3

**SHELF LIFE** 1 year minimum, stored in its unopened and original cans at temperatures between +5°C and +30°C.

**COLOUR RANGE** The range of colours can be chosen in shades of K7 colour sampler. Between one production and the other, tint may be slightly different, it is therefore important to finish the job with the same batch.

**SURFACE PREPARATION** 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:* if clean and free of dirt, oil, grease, salts and dry, and recoated part in a maximum of the primer coating can be over applied. If cleaning is necessary , perform high-pressure washing Wa 2 (surface free of oil, grease, salt, dirt).

*With complete coating:* if undamaged compatible and non-chalky perform cleaning oil and grease with detergent, then perform surface sanding followed by pressure washer to remove dirt and salts.

*Rusty coating:* perform mechanical preparation St2 or St3 followed by a pressure washer to remove oil, grease, dust and salts or sandblasting Sa2 or Sa2,5; then restore the primer thickness.

*Localized maintenance:* perform mechanical preparation St2 or St3 followed by a pressure washer to remove oil, grease, dust and salt or sand blasting Sa2 or Sa2,5. Round off the edges of the paint well stuck and restore the system in the original layers and thicknesses.

**TOOLS** Conventional or airless spray, roller, brush

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APPLY	Thinning	0-5% with water
	Application conditions	+15°C +40°C >3°Cat dew point Relative humidity:<65%
	Airless application method	Nozzle pressure:15 MPa (150 kp/cm <sup>2</sup> , 2100 psi.) Nozzle: 0,28 - 0,38mm (0,011 - 0,018") Angle range; 40 - 80° Air pressure: compression ratio 30:1 (pressure 150-180 kg/cm <sup>2</sup> )
	Conventional spray application method	Nozzle: 1,6 – 1,8mm Angle range 30 - 50° Air pressure: 3,5-4 kg/cm <sup>2</sup> )

**DRYING TIME**

The data supplied must be considered merely indicative. The actual drying time can be shorter or longer, taking account of film thickness, ventilation, humidity. In the subsequent coating the better adhesion is achieved when the application of the next hand is done before the time of complete catalysis.

Surface temperature	23°C
Out touch	45'
Dry to touch	5h
Full catalysis	24h
Minimum time of over application	5h

**RECOMMENDED UNDERCOATS RECOMMENDED SYSTEM**

Hydro Primer 15, Hydro primer 40

**Atmosphere C2**

Product	Coats	Wet thickness	Dry thickness
Hydro Primer 15	1	100	50
Hydro Acril 48	1	110	55
<b>Total</b>	<b>2</b>	<b>210</b>	<b>105</b>

**POSSIBLE SYSTEMS ON ALLOY, GALVANIZED STEEL, PLASTIC**

Product	Coats	Wet thickness	Dry thickness
Hydro Acril 48	1	110	55
Hydro Acril 48	1	110	55
<b>Total</b>	<b>2</b>	<b>220</b>	<b>100</b>

**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.