ARREGHINI®
ITALIAN PAINTS SINCE 1950

INDUSTRIAL coating

TECHNICAL DATA SHEET

HYDRO PUR 70

Waterbased polyacrylic enamel

FEATURES

Glossy enamel, two-component, water based polyacrylic, fast drying at room temperature or with forced air temperature (max 70 ° C), characterized by excellent adhesion properties and resistance to atmospheric agents. It also presents excellent resistance in corrosive environments, industrial and marine with high abrasion and colour resistance.

USE

It is used as a finish, or as a single coat, where there are high demands aesthetic characteristics, mechanical strength, and UV, in the painting of industrial bodywork, containers, chemical plants, port facilities.

PROPERTY OF THE PRODUCT

	VALUE	METHOD
Specific weight (A+B)	1000-1200 g/l	
Working temperature	<+100 °C	
Solids by volume (A+B)	50 ± 2	
VOC (A+B)	52 g/l	

SPECIFICATION DATA

	VALUE	METHOD
Specific weight	1000-1100 g/l	Internal PF3
Gloss level 60°	>80	Internal PF6
Drying Time	Fully 24 h	Internal PF2
Pot-life	> 30 min	Internal PF7

THICKNESS AND COVERAGE

	Minimum	Maximum	Recommended
Thickness of dry film µm	40	100	60
Thickness of dry film, µm	80	200	120
Theoretical coverage, m^2/l	12,5	5	8,3
Theoretical coverage, m^2/kg	11.4	4.5	7.5

SHELF LIFE

6 months in its original and unopened can at a temperature from +5°C and +30°C.

COLOUR RANGE

The range of colours 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.

SURFACE PREPARATION

General considerations The surface must be dry and clean from pollutants of various types such as dirt, oil, grease and salts.

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.

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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

Airless or conventional Spray; roller, brush (for small surfaces and profiles)

APPLICATION

Mixing ratio in weight	100:25 with Induritore Hydro Pur
Mixing ratio in volume	100:30 with Induritore Hydro Pur
Thinning	0-10% with water
Using time 23°C	>30 min
Application conditions	+5°C +40°C >3°C to dew point Relative humidity: < 70%
Airless application method	Nozzle pressure:15 MPa (150 kp/cm², 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^2)
Conventional spray application method	nozzle: 1,6 – 1,8mm Angle range; 30 - 50° Air pressure: 3,5-4 kg/cm^2
Thinner for washing	Water

DRYING TIME

The given data must be considered purely indicative. The actual drying time may be shorter or longer, taking account of the film thickness, ventilation, humidity. The complete curing takes place at temperatures 10 ° C. There are no maximum time limits of overpainting, however the best adhesion is obtained when the application of the subsequent coat is performed before the full curing time.

DTF 60 micron

Surface temperature	10°C	23°C	35°C	oven 60°C
Out touch	60'	45'	30'	
Dry to touch	5h	2h	1,5h	
Full catalysis	72h	24h	18h	45'
Minimum time of over application	5h	2h	1,5h	
Maximum time of over application	6days	5days	3days	

RECOMMENDED FINISHINGS

Hydro Primer 46, Hydro Primer 40

RECOMMENDED SYSTEM

industrial and marine atmosphere

Product	coats	Wet thickness	Dry thickness
Hydro Primer 40	1	160	80
Hydro Primer 40	1	160	80
Hydro Pur 70	1	120	60

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	Total	3	440	220

POSSIBLE SYSTEM

Product	coats	Wet thickness	Dry thickness
Hydro Primer 46	1	200	100
Hydro Pur 70	1	120	60
Total	2	320	160

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.

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