

PRODUCT DATA SHEET

PUR TOP 52
Aliphatic polyurethane enamel

DESCRIPTION	<p>Dual-component glossy enamel, with hardener based on aliphatic isocyanate, drying at room temperature or forced-air. It is characterized by excellent flow, fullness and weather resistance. It also has excellent resistance in corrosive, industrial and marine environments with high shock resistance. It can be cured with Induritore poliuretano HS aliphatic isocyanate high solid or Induritore Poliuretano MS.</p> <p>With Induritore Poliuretano HS high solid ensures limited emissions.</p>
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USE	<p>It is used as finishing where high anti-corrosion power, resistance to sea water and UV are required as well as good aesthetic results; suitable for industrial bodywork, containers, chemical plants, ships, port facilities, wind farms.</p>
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PROPERTY OF THE PRODUCT	VALUE	METHOD
Specific weight (A+B)	1100-1200 g/l	
Application temperature	<+120 °C	
Flash point	30°C ± 2	
Solid by volume (A+B)	50±2% with Induritore poliuretano MS 60±2% with Induritore poliuretano HS	
VOC	415 g/l with Induritore poliuretano MS 350 g/l with Induritore poliuretano HS	
Brillantezza 60°	>80	

SPECIFICATION DATA	VALUE	METHOD
Specific weight	1000-1100	Internal PF3
Gloss	> 80	Internal PF6
Pot-life	Max 2,5h	Internal PF7
Drying Time to touch	Overcoatable 20 h Fully 5 days	Internal PF2

THICKNESS AND YIELD	By Induritore poliuretano HS		Recommended
	Min.	Max	
Thickness of dry film, µm	45	80	60
Thickness of wet film, µm	75	133	100
Theoretical yield, m²/l	13,3	7,5	10
Theoretical yield, m²/kg	11,6	6,5	8,7
By Induritore poliuretano MS			Recommended
Thickness of dry film, µm	40	70	50
Thickness of wet film, µm	80	140	100
Theoretical yield, m²/l	12.5	7.1	10
Theoretical yield, m²/kg	10.9	6,2	8,7

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SHELF LIFE	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 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.	
PREPARATION OF SURFACE	<p>General observation: Surface must be dry and clean from any kind of oil, grease and salts.</p> <p>Coated surface</p> <p><i>With primer:</i> 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).</p> <p><i>With complete finishing coat:</i> 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.</p> <p><i>Rusty coating:</i> 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.</p> <p><i>Localized maintenance:</i> 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.</p>	
TOOLS	Conventional spray o airless (high temperature and humidity <40% is possible the formation of "dusting"), roller, brush (for small surfaces and profiles).	
APPLICATION	<p>Mix ratio in weight</p> <p>Mix ratio in volume</p> <p>Thinning</p> <p>Application time at 23°C</p>	<p>100:50 with Induritore Poliuretano MS (medium solid aliphatic catalyst)</p> <p>100:25 with Induritore Poliuretano HS (high solid aliphatic catalyst)</p> <p>100:50 with Induritore R4 (medium solid non-yellowing aliphatic / aromatic mixed catalyst)</p> <p>100:60 with Induritore Poliuretano MS (medium solid aliphatic catalyst)</p> <p>100:30 with Induritore Poliuretano HS (high solid aliphatic catalyst)</p> <p>100:60 with Induritore R4 (medium solid non-yellowing aliphatic / aromatic mixed catalyst)</p> <p>0.5% with Diluente Butol</p> <p>Max 2,5h</p>

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	Application condition	+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° Air pressure: Compression ratio 30:1 (pressure 150-180 kg/cm ²)
	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	Drying times are purely indicative as it might be longer or shorter by keeping in consideration ventilation, humidity, thickness of the applied film. There is no limit to the maximum time of over painting, however the best adhesion is achieved when applying the next coat before the time of complete curing.	

DTF 60 micron with Induritore poliuretano MS

Surface temperature	5 °C	10 °C	23 °C	30 °C
Out touch	2h	60'	45'	30'
Dry touch	16h	8h	4h	3,5h
Full catalysis	3 days	36h	20h	18h
Minimum time of over application	16h	8h	4h	3,5h
Maximum time of over application	5 days	3 days	48h	36h

RECOMMENDED PRIMER

Poly-acrylic, epoxy, Corrobloc.

RECOMMENDED SYSTEM

Marine and industrial atmosphere C5 high

Product	Coat	Wet Thickness	Dry thickness
Cap zinc 14	1	90	59
Capmastic 14	1	250	200
Pur Top 52 con HS	1	100	60
Total	3	440	319

ALTERNATIVE SYSTEM

Product	Coat	Wet Thickness	Dry thickness
Epoxy Zinc 2K	1	83	50
Primer 40	1	109	60
Pur TOP 52	1	100	50
Total	3	292	160

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Product	Coat	Wet Thickness	Dry thickness
Primer 40	1	109	60
Pur TOP 52	1	100	50
Total	2	209	110

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.