

## TECHNICAL DATA SHEET

**PUR TOP 52 HS-PC**

## Aliphatic polyurethane enamel

FEATURES	Two-component polyurethane glossy finish based high solids aliphatic isocyanate characterized by excellent gloss characteristics, wettability and elasticity, with the possibility of being applied in thick layers without sagging. It has an excellent resistance in marine and corrosive environments with high gloss retention and color. It can be used with Induritore Pur PC isocyanate aliphatic high solid or Induritore Poliuretano MS. with Induritore Pur PC ensures limited emission of solvents into the atmosphere and better vertical hold.			
TYPICAL USE	It is used as a finish where high corrosion resistance is required, resistance to sea water and UV and good aesthetic characteristics. Suitable for chemical plants, port facilities, ships, wind farms, infrastructure, bridges, etc ...			
PERFORMANCE DATA	DESCRIPTION	VALUE		
	Specific weight (A+B)	1100 – 1200 g/l		
	Application temperature	< + 120°C		
	Flash point	30°C ± 2		
	Solid by volume %	60 ± 2% with Induritore PUR PC		
		55 ± 2% with Induritore Poliuretano MS		
	Gloss level 60°	> 80		
	VOC (A+B)	440 g/l with Induritore Poliuretano MS		
		415 g/l with Induritore PUR PC		
THICKNESS AND COVERAGE	<b>With Induritore PUR PC</b>	Minimum	Maximum	Recommended
	Thickness of dry film, µm	45	90	60
	Thickness of wet film µm	75	150	100
	Theoretical coverage m²/l	13,3	6.7	10
	Theoretical coverage m²/kg	11,6	5.8	8,7
	<b>With Induritore Poliuretano MS</b>	Minimum	Maximum	Recommended
	Thickness of dry film µm	44	77	55
	Thickness of wet film µm	80	140	100
	Theoretical coverage m²/l	12.5	7.1	10
	Theoretical coverage m²/kg	10.9	6.2	8,7
SHELF LIFE	1 year minimum stored 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.			

## TECHNICAL DATA SHEET

**PUR TOP 52 HS-PC**

## Aliphatic polyurethane enamel

SURFACE PREPARATION	<b>General observation:</b> Surface must be dry and clean from any kind of oil, grease and salts.				
	<b>Coated surface</b> <i>With primer:</i> If necessary perform pressure washing with fresh water until the complete removal of contaminants. Applications need to respect the times overcoating of the primer. On surfaces with product compatible to perform cleaning and roughening of any support. <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. <i>Localized maintenance:</i> remove all contaminants and run a preparation as rusty coating. Round off the edges of the well anchored painting and restore the system in the original layers and thicknesses.				
TOOLS	Conventional or airless spray, roller, brush (for small surfaces)				
APPLY	Mixing ratio in weight	100:50 with Induritore Poliuretano MS 100:25 with Induritore PUR PC			
	Mixing ratio in volume	100:60 with Induritore Poliuretano MS 100:30 with Induritore PUR PC			
	Thinning	0-5% with Diluente Butol			
	Pot life 23°C	2,5 h			
	Application condition	+5°C + 40°C			
	Application by airless	Nozzle pressure 15 MPa (150kp/cm²) Nozzle 0,28 – 0,38 mm (0,0011-0,018) Air pressure: compression ratio 30:18 pressure 150-180 kg/cm²			
DRYING TIMES	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.				
	DFT 60 micron				
	Surface temperature	5°C	10°C	23°C	30°C
	Out touch	2h	60 min	45 min	30 min
	Dry to touch	16 h	8 h	4 h	3,5 h
	Complete catalysis	3 gg	36 h	20 h	18 h
	Minimum time of overcoating	16 h	8 h	4 h	3,5 h
RECOMMENDED SYSTEM	Product	Coats	Wet thickness	Dry thickness	
	CAP ZINC 14	1	90	60	
	CAPMASTIC 14	1	250	200	
	PUR TOP 52 HS-PC	1	100	60	
	Total	3	440	320	
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.				