

PRODUCT DATA SHEET

PUR TOP 53 HS-PC

Aliphatic polyurethane enamel

CHARACTERISTIC	Semi-glossy polyurethane dual-component finish, high solids based on aliphatic isocyanate, characterized by excellent gloss, wettability and elasticity, with the ability to be applied in high thickness without sagging. It has very good resistance in corrosive environments with high gloss level and colour retention. It can be used with Induritore Pur PC high-solids aliphatic isocyanate or Induritore Poliuretano MS. With Induritore Pur PC ensures limited solvent emission into the atmosphere and better vertical seal.			
USE	It is used as a finish where high corrosion resistance, resistance to sea water and to UV, together with good aesthetic characteristics, are required. Suitable for chemical plants, port facilities, ships, wind farms, infrastructure, bridges, etc .			
TECHNICAL 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% by Induritore PUR PC		
		55±2% by Induritore Poliuretano MS		
	Brilliance 60°	50-60		
	VOC (A+B)	440 g/l by Induritore Poliuretano MS		
		415 g/l by Induritore PUR PC		
THICKNESS AND YIELD	By Induritore PUR PC	Min.	Max	Recommended
	Thickness of dry film (µm)	45	90	60
	Thickness of wet film (µm)	75	150	100
	Theoretical yield, m²/l	13,3	6.7	10
	Theoretical yield, m²/kg	11,6	5.8	8,7
	By Induritore Poliuretano MS	Min.	Max	Recommended
	Thickness of dry film (µm)	44	77	55
	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
STORAGE	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	The range of colors 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.			

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PREPARATION OF SURFACE

General observation: Surface must be dry and clean from any kind of oil, grease and salts.

Coated surface

With primer: 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).

With complete finishing coat: 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.

Rusty coating: 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.

Localized maintenance: 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.

TOOLS

Conventional or airless spray, roller, brush (for small surfaces)

APPLICATION

Mix ratio in weight	100:50 by Induritore Poliuretano MS 100:25 by Induritore PUR PC
Mix ratio in volume	100:60 by Induritore Poliuretano MS 100:30 by Induritore PUR PC
Thinning	0-5% by Diluente Butol
Application time at 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 TIME

Dry time are purely indicative as it might be longer or shorter by keeping in consideration ventilation, humidity, thickness of the applied film. In over coating, best adhesion can be obtained when next application is done before catalysis is completed.

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

RECOMMENDED SYSTEM

Prodotto	Coat	Wet Thickness	Dry thickness
CAP ZINC 14	1	90	60
CAPMASTIC 14	1	250	200
PUR TOP 53 HS-PC	1	100	60
Total	3	440	320

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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.