

# POLYSTRIA v01

Acrylic Polyurethane





DEFINITION			
	Glossy topcoat, two components, based on acrylic resin reticulated by an aliphatic isocyanate.		
INTENDED USES	As topcoat applied on metallic structures exposed to an aggressive environment, such as : - Bridges, storage tanks, containers, silos, - Equipment and structures used in chemical, nuclear industries, - Machines and specialised equipments, etc. - Top coat for Surface protection systems on concrete surface.		
PRINCIPAL CARACTERISTICS	Fast curing. Crosslinking up to -5°C Does not turn yellow and long-lasting glossy aspect. Over 1500 colour tints possible with our "Industry" tinting machine system.		
CERTIFICATIONS / APPROVALS	ACQPA : Brand ACQPA 321 :C3ANV450, C3AN C3ANV658, C3ANV C3ANV1330, C3AN C4ANV451, C4AN C4ANV691, C4ANV C4ANV1282, C4AN C5GNV866, C5MAA 926 et B1000 VL 92	51. Is used in the followig certified systems //V450, C3ANV537, C3AMV537, C3ANV647, / 1490, C3AMV658, C3ANV1104, C3ANV1283, /1337, C3AMV1104, C3AMV1339, C3ANV1420, /V451, C4ANV645, C4ANV659, C4AMV659, /1336, C4GNV838, C4ANV1105, C4AMV1105, /1329, C4AMV1338, C3ZNV1134, C4ZNV1135, NV1331, C5MaANV1136, B300 VL 901, B300 VL 4.	
	EDF : Is used in the follow 380, 1013, 1022, 10	ng systems registered in the FNP under numbers 50, 1062, 1063,1064,1065 and 1068.	
	CE Marking : Polystria v01 meets "Surface protection s Declaration of Perfor	<b>farking</b> : Polystria v01 meets the requirements of standard NF EN 1504-2 "Surface protection systems for concrete", principles 1, 2 and 8. Declaration of Performance(DoP) available on request.	
TECHNICAL DATA			
	Gloss level Colours	: Glossy : According to colour models RAL / AFNOR / 1000 tints…	
	Number of components	: 2	
	Mix ratio, by weight	: 89/11	
	Mix ratio, by volume	: 86,7/13,3	
	Specific gravity	: 1,21 +/- 0,05 g/cm <sup>3</sup>	
	Solids volume	: 52,0 +/- 3%	
	Solids weight	: 65,0 +/- 2%	
	i ypical thickness (dry)	: 40 µm	
	i ypical thickness (wet)	: 80 µm	
	I heoretical spreading rate	: 13 m²/l for 40µm dry	





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## INSTRUCTIONS

#### SURFACE PREPARATION

#### STEEL

The surface must be clean, dry and treated with a compatible anti-corrosive system. See the section pertaining to compatibilities or consult our technical department.

#### CONCRETE

The substrate must be at least 28 days old, clean, dry and sound, free from any pollution and capillary moisture, treated with a compatible system. See the section pertaining to compatibilities or consult our technical department.

#### APPLICATION

Mixing: The product is supplied in pre-measured kit form. Pour the hardener part into the base tub and mix, taking care not to incorporate air. The mixing temperature should be at least 10°C. If not, it is necessary to add thinner to get the application viscosity. N.B. excess thinner increases the risk of sagging.

Induction time :	15 mn			
Working pot life :	Temperature	Time		
	10°C	10 hours		
	20°C	4 hours		
	30°C	2 hours 30 mn		
Substrate temperature	: Between -5°C and +40°C and a to eliminate any risk of condens	Between -5°C and +40°C and at least 3°C higher than the dew point in order to eliminate any risk of condensation.		
Weather conditions :	The temperature should be between -5°C and 40°C The relative humidity should be between 0% and 85%			
Technical note :	Do not leave paint in spray equipment for longer than the pot life. Rinse equipment with 61-161 v01 thinner then clean it carefully with cleaning solvent. Prepared mix that is not used should not be sealed hermetically. For an extended stop, it is better to prepare a new kit.			

#### AIRLESS SPRAY

Thinner : 61-161 v01 Dilution : 0 to 15 % Nozzle : 0.011-0.013 Pressure at nozzle : 150-200 bars Mini pump ratio: 30/1

### AIR SPRAY

Thinner : 61-161 v01 Dilution : 15 to 25 % Nozzle : depends on the equipment used. Pressure at nozzle : 3-4 bars

### BRUSH

Thinner : 61-161 v01 Dilution : 0 to 10 %

## ROLLER

Thinner : 61-161 v01 Dilution : 0 to 10 %

CLEANING SOLVENT :

61-161 v01 or 68-69 v01











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# **CURING TIME**

	Drying time		Overcoati	ng interval
Temperature	Touch dry	Hard dry	Minimum	Maximum
10°C	6 hours	12 hours	24 hours	12 months
20°C	4 hours	6 hours	12 hours	12 months
30°C	3 hours	4 hours	6 hours	12 months

## COMPATIBILITY

Previous coat(s)FERROCOTE, EPODUX BR 100, EPODUX PRIMER 61-134 v01, EPODUX HV PC,<br/>EPODUX IM 209, EPODUX IM 209 GF, EPODUX ARF, PRIMODUX H, PRIMODUX EV,<br/>PRIMODUX SR 74-31, MONOPRIMER 58-86, MONOCOUCHE SR 75, PRESTOPRIM<br/>A/C.Subsequent coat(s)Itself, FERROTHANE, PRESTOTHANE, POLYSTRIA HES.

# REGULATORY SPECIFICATIONS

AFNOR RATING VOC (Directive 2004/42/EC)	AFNOR NFT 36 005 rating Family I Class 6a EU limit value for this product (cat. A/j) : 500 g/l (2010) This product contains max 500 g/l VOC	
HEALTH AND SAFETY		
Flash point	BASE : between 23°C and 55°C HARDENER : between 23°C and 55°C	
Transport and labelling	Refer to the safety data sheet established as per applicable European directives	
Shelf life	2 years in original full, sealed packaging. Store in a cool, ventilated place.	

Precautions Refer to the current material safety data sheet

## PACKAGING

KIT	BASE	HARDENER
11	0,87 l	0,13
4 I	3,48 I	0,52 l
15	13,00 l	2,00 l



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This description sheet is designed to inform customers about the properties of our product. The information is based on our current knowledge. However, this information cannot replace an appropriate description of the nature and condition of the base to be painted. Techniques and technology are constantly developing and it is up to our customers, before using any product, to check with our departments that the sheet has not been updated and replaced by a more recent version. The present description sheet replaces any previous sheet about the same product. The above technical data does not engender acceptance of any guarantee