

POLYSTRIA v01

Acrylic Polyurethane

DEFINITION

Glossy topcoat, two components, based on acrylic resin reticulated by an aliphatic isocyanate.

INTENDED USES

Substrate(s) : STEEL
CONCRETE

Exposure(s) :

PRINCIPAL CHARACTERISTICS

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	EDF	CE Marking
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/> CONCRETE

COMPATIBILITY

PREVIOUS COAT(S)*	SUBSEQUENT(S) COAT(S)*
FERROCOTE EPODUX BR 100 EPODUX PRIMER 61-134 v01 EPODUX HV PC EPODUX IM 209 EPODUX IM 209 GF EPODUX ARF PRIMODUX H PRIMODUX EV PRIMODUX SR 74-31 MONOPRIMER 58-86 MONOCOUCHE SR 75 PRESTOPRIM A/C.	Itself FERROTHANE PRESTOTHANE POLYSTRIA HES.

*For any product not mentioned in compatibility lists, contact our technical support.

TECHNICAL DATA

NUMBER OF COMPONENTS	2
GLOSS LEVEL	Glossy
COLOURS	According to colour models RAL / AFNOR / 1000 tints…
MIXING RATIO	weight : 89/11 volume : 86,7/13,3
SPECIFIC GRAVITY	1,21 +/- 0,05 g/cm ³
SOLIDS CONTENT	weight : 65,0 +/- 2% volume : 52,0 +/- 3%
TYPICAL THICKNESS (DRY)	40 µm
RECOMMENDED WET FILM THICKNESS	80 µm
THEORETICAL SPREADING RATE	13 m ² /l for 40µm dry
AFNOR RATING NFT 36 005	AFNOR NFT 36 005 rating Family I Class 6a
VOC (Directive 2004/42/EC)	Cat. A/j : 500 g/L (2010) 500 g/L VOC
VOC IN INDOOR AIR	 <small>EMISSIONS DANS L'AIR INTÉRIEUR* * Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).</small>
PACKAGING	1 L - 4 L - 15 L

Specific gravity, solid content by volume and by weight are given for mix A+B, without thinner and on the white base for all topcoat. Liquid characteristics of products are given at 20°C.

DRYING TIME - OVERCOATING INTERVAL

FILM THICKNESS 0 µm dry	POT LIFE	DRYING TIME		OVERCOATING INTERVAL	
		Touch dry	Hard dry	Minimum	Maximum
10°C	10 hours	6 hours	12 hours	24 hours	12 months
20°C	4 hours	4 hours	6 hours	12 hours	12 months
30°C	2 hours 30 mn	3 hours	4 hours	6 hours	12 months

Introduce thinner may affect pot life. Dilution, relative humidity and aeration could affect drying time.

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INSTRUCTIONS

All surfaces must be clean, dry and contamination-free before painting.

SURFACE PREPARATION

SUBSTRATE(S) :	RECOMMENDED
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 CONDITIONS

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
WEATHER CONDITIONS	Room temperature : The temperature should be between -5°C and 40°C Relative humidity : 85% maximum
TEMPERATURE	Of substrate : Between and -5°C and +40°C and at least 3°C higher than the dew point in order to eliminate any risk of condensation. Of product :
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.

Early exposure to condensation or rain could provide a change of gloss and/or shade.

APPLICATION

APPLICATION EQUIPMENT	DILUTION*	NOZZLE	PRESSURE AT NOZZLE	MINIMUM PUMP RATIO	REMARKS
AIRLESS SPRAY	0 to 15 %	0.011-0.013 (inches)	150-200 bars	-	Mini pump ratio: 30/1
AIR SPRAY CONVENTIONAL	15 to 25 %	depends on the equipment used.	3-4 bars	-	-
BRUSH	0 to 10 %	-	-	-	-
ROLLER	0 to 10 %	-	-	-	-
THINNER	-		CLEANING SOLVENT	-	-

* Dilution rate % are indicative and should be adapted to atmospheric conditions and site specific conditions. Excess of thinner could involve sagging effect and lost of opacity.

HEALTH AND SAFETY

Flash point	: BASE between 23°C and 55°C HARDENER between 23°C and 55°C
Shelf life	: DLUO : 2 years minimum in original full, sealed packaging . Store in a cool, ventilated place.
Precautions	: Refer to the current material safety data sheet(SDS).
Transport and labelling	: Refer to SDS according to European directives.
Waste Management	: Soiled Industrial wastes. For more information, please refer to SDS.