

PRIMOTHANE

Polyurethane single-layer

DEFINITION

Two-components polyurethane coating, anti-corrosive through associated action and chemically inert.

INTENDED USES

Substrate(s) : Carbon steel
Galvanized steel
Aluminium

Exposure(s) : Indoor
Outdoor (if protected)

PRINCIPAL CHARACTERISTICS

- Single layer.
- Excellent adherence on pre-prepared steel; galvanized steel and aluminium pre-prepared with METONET.
- Good resistance to corrosion.


(1)

COMPATIBILITY

PREVIOUS COAT(S)*	SUBSEQUENT(S) COAT(S)*
Itself or a compatible epoxy primer (contact our technical department).	Itself.

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

TECHNICAL DATA

NUMBER OF COMPONENTS	2
GLOSS LEVEL	Semi glossy
COLOURS	According to RAL and AFNOR colour models
MIXING RATIO	weight : 87,2/12,8 volume : 83,3/16,7
SPECIFIC GRAVITY	1,40 +/- 0,05 g/cm ³
SOLIDS CONTENT	weight : 74,0 +/- 2% volume : 60,0 +/- 3%
TYPICAL THICKNESS (DRY)	100 µm
RECOMMENDED WET FILM THICKNESS	165 µm
THEORETICAL SPREADING RATE	6 m ² /l for 100 µm dry
AFNOR RATING NFT 36 005	Family I Class 6a
VOC (Directive 2004/42/EC)	Cat. A/j : 500 g/L (2010) 465 g/L VOC
VOC IN INDOOR AIR	 * 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).
PACKAGING	5 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 100 µm dry	POT LIFE	DRYING TIME		OVERCOATING INTERVAL	
		Touch dry	Hard dry	Minimum	Maximum
10°C	8 hours	6 hours	24 hours	10 hours	Not critical
20°C	4 hours	4 hours	8 hours	6 hours	Not critical
30°C	3 hours	2 hours	4 hours	3 hours	Not critical

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) :	MINIMUM	RECOMMENDED
Carbon steel	/	Abrasive blast cleaning at Sa 2 ½ according to ISO 8501-1 : 2007.
Galvanized steel	Etching with METONET followed by rinsing with clean water. The surface should have a rough profile	Sweep Blasting with non metallic abrasive. The surface should be clean, uniform and have rough profile.
Aluminium *	/	Sweep Blasting with non metallic abrasive. The surface should be clean, uniform and have rough profile.

*An appropriate test (application and adhesion test after drying) is recommended to ensure product compatibility.

APPLICATION CONDITIONS

MIXING	The product is supplied in pre-measured kit form. For 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	None	
WEATHER CONDITIONS	Room temperature : Relative humidity :	The temperature should be between 5°C and 40°C 85% maximum
TEMPERATURE	Of substrate : Of product :	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. 15°C minimum
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 5 %	0.017-0.019 (inches)	150-200 bars	45 : 1	-
AIR SPRAY CONVENTIONAL	10 to 20 %	depends on the equipment used.	3-5 bars	-	(2)
BRUSH	0 to 5 %	-	-	-	(2)
ROLLER	0 to 5 %	-	-	-	(2)
THINNER	61-161 v01		CLEANING SOLVENT	61-161 v01	-

* 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.

Remark(s)

(1) The coating properties, excluding the aspect, are not affected by actinic radiation. However, the appearance of yellow tones can occur in some colours.

Dark tones are likely to change in case of a premature contact with water.

(2) Thickness achievable after several passes

HEALTH AND SAFETY

Flash point	: BASE between 23°C and 55°C HARDENER Inferior or equal to 21°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.