



Hybrid Coating Technologies

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PIO15S–White

Green Polyurethane™ Indoor & Outdoor Paint/Coating

Technical Data Sheet

Revision April 4, 2016

PROPERTIES	UNIT	STANDARD	VALUE
General			
Type of the product	Two-component hybrid nonisocyanate polyurethane paint		
Use	Paint for indoor/outdoor light stable and chemical and weather resistant applications		
Substrate	Concrete, cement cover, gypsum, plaster walls, some types of wood, metal		
Primer	Conventional primer might be required for some substrates		
Physical Properties			
Ratio of components Base "A" : Hardener B (Uramine 4761)	(100 A : 24B) <i>by weight</i> (100A : 33B) <i>by Volume</i>		
Viscosity at 77°F (25°C) of mixture of components A & B (3-5 min after mixing) (Brookfield RVDV II, Spindle 29, 20 rpm)	cP (mPa·s)	ASTM D2196	≤2500
Density at 77° F (25° C): -Base "A" -Hardener "B" -Mixture "A+B"	lb/gal (kg/l)	ASTM D1475	10.74 (1.29) 7.87 (0.95) 10.04 (1.20)
Pot life at temperature:	°F (°C) min		59 (15) 77 (25) 120 40
Thickness of the layer of coating (coverage)	mils (ft ² /gal.) µm (m ² /l)		Up to 4 (400 min.) Up to 100 (10 min.)
VOC	%	ASTM D2369	~ 0
Solids content	%		~ 100
Application temperature	°F (°C)		+ 59-77 (+ 15-25)
Curing time at temperature:	°F (°C)		59 (15) 77 (25)
❖ Dry-To-Touch Time	hours	ASTM D1640	8 4
❖ Full cure	days		10 7
Performance Properties			
Appearance of dried paint			White, gloss
Specular gloss, initial, 60°		ASTM D523	>90
Pencil Hardness		ASTM D3363	F 2H
• at 24 hours			
• full cure			
Impact resistance, punch 0.625 in, weight 4 lbs, CS δ = 1 mm	lb · in (N·m)	ASTM D2794	≥ 60 (≥ 6.8)
Chemical and Stain Resistance (24 h @ 77°F / 25°C)			
Weight gain (24 h @ 25°C) at immersion in:		ASTM D570	0.1- 0.5 % Limited resistance
• Water			
• Sulfuric acid – 10% H ₂ SO ₄			
Motor oil			No effect
Brake fluid			Gloss reduction
Vegetable oil			No effect
Skydrol (aviation hydraulic fluid)			No effect