



Green Polyurethane™ Indoor/Outdoor Paint/Coating

Technical Data Sheet: PIO15W – Black

Rev. September 23, 2011

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		
Primer	Conventional primer might be required for some substrates		
Physical Properties			
Ratio of components (Base "A" : Hardener "B")			100 A : 30 B by weight (3 A : 1 B by volume)
Viscosity at 77°F (25°C) (Brookfield RVDV II, Spindle 29, 20 rpm) of: component A component B mixture of A & B (3-5 min after mixing)	cP (mPa's)	ASTM D2196	2500-3000 200-400 ≤2300
Density at 77° F (25° C): Base "A" Hardener "B" Mixture "A+B"	lb/gal (g/cm ³)	ASTM D1475	9.5 (1.1) 8.4 (1.0) 9.0 (1.05)
Pot life at temperature:	°F (°C) min		50 (10) 59 (15) 77 (25) 180 120 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)		+ 50-77 (+ 10-25)
Curing time at temperature: ❖ Dry-To-Touch Time ❖ Full cure	°F (°C) hours days	ASTM D1640	50 (10) 59 (15) 77 (25) 12 8 4 14 10 7
Performance Properties			
Appearance of dried paint			Black, gloss
Specular gloss, initial, 60°		ASTM D523	>90
Pencil Hardness at 24 hours full cure		ASTM D3363	F 2H
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 at immersion in water	%	ASTM D570	0.1- 0.5
Sulfuric acid – 10% H ₂ SO ₄			Limited resistance
Motor oil			No effect
Brake fluid			Gloss reduction
Transmission fluid			No effect
Xylene			Light changing of the color
Vegetable oil			No effect