



Hybrid Coating Technologies

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Green Polyurethane™ Indoor/Outdoor Floor Coating

Technical Data Sheet FLIO6W Grey

Revision 4.2.16

PROPERTIES	UNIT	STANDARD	VALUE
General			
Type of the product	Two-component hybrid nonisocyanate polyurethane compound		
Use	Compound for indoor/outdoor abrasive, impact, chemical and light resistant flooring		
Substrate	Concrete, cement cover		
Primer	Conventional primer might be required for some substrates		
Physical Properties			
Ratio of components (Base "A" : Hardener "B" Uramine 4761)			100 A : 28 B <i>by weight</i> 100 A : 34 B <i>by volume</i>
Viscosity Part A Viscosity Part B Viscosity after mixing Part A&B (Brookfield RVDV II, Spindle 29, 100 rpm) at 68° F (20°C)	cP (mPa·s)	ASTM D2196	1500-1800 400-600 1000-1400
Density at 77° F (25° C): "B" "A+B"	lb/gal (kg/l)	ASTM D1475	9.72 (1.16) 7.87 (.95) 9.24 (1.11)
Color			Grey
Pot life at temperature:	°F (°C) min		59 (15) 77 (25) 120 40
Thickness of the coating (coverage)	mils (ft ² /gal.) mm (m ² /l)		10-120 (160-13) 0.25-3 (4.15-3)
VOC	%	ASTM D2369	~ 0
Solids Content	%		~ 100
Application temperature	°F (°C)		+ 59-77 (+ 15-25)
Curing time at temperature: ❖ Dry-To-Touch Time ❖ Walk on ❖ Full cure	°F (°C) hours hours days	ASTM D1640	59 (15) 77 (25) 8 4 30 24 10 7
Performance Properties			
Salt Spray		ASTM B117- 09	No blistering at 1000hours of exposure
Pull-off Adhesion Bond Strength	psi	ASTM D4541-02	350-550 Adhesion bond broke at the paint/substrate interface in all tests
Impact resistance		ASTM D2794- 93(2010)	No crazing, or loss of adhesion at 40 inch pounds

Tensile strength at break	psi (MPa)	ASTM D638	5,700-8,500 (39-59)
Tensile Elongation at break	%	ASTM D638	3-5
Hardness (Shore D)		ASTM D2240	75-80
Abrasion resistance (TABER, wheel CS-17, 1000g), loss of mass,	mg/1000 cycles	ASTM D4060	25-30
Bound strength to concrete substrate		ASTM D4541 ACI 503.4-2322	Cohesive failure
Coefficient of Friction		ASTM D2047	0.4-0.5
Thermal Testing	120 hours	ASTM C884/C884M-98(2010)	No cracking or delamination of samples
Chemical and Stain Resistance (24 h @ 77° F / 25° C)			
Water Absorption. Weight gain at immersion in water (24 h @ 77°F / 25°C)	%	ASTM D570-98(2010)e1	0.1- 0.5
Water resistance, immersion		ASTM D870-09	No change in color or blistering
Hydrochloric acid – 10 % HCl			Limited resistance
Battery acid			Limited resistance
Sodium hydroxide – 10 % NaOH			No effect
Sodium sulfate – 10 % Na ₂ SO ₄			No effect
Gasoline			No effect
Diesel fuel			No effect
Motor oil			No effect
Brake fluid			Gloss reduction
Transmission fluid			No effect
Hydraulic fluid			No effect
Vegetable oil			No effect
Alcohol			No effect