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FLI4W – FC Clear

Green Polyurethane™ Indoor Floor Coating (Version 2016.09.05)

Technical Date Sheet

PROPERTIES	UNIT	STANDARD	VALUE
General			
Type of the product	Two-component hybrid nonisocyanate polyurethane compound		
Use	Compound for indoor abrasive, impact and chemical resistant floorings		
Substrate	Concrete, cement cover.		
Primer	Conventional primer might be required for some substrates		
Physical Properties			
Ratio of components (Base "A" : Hardener "B")	100 A : 40 B ***by weight*** 100 A : 48 B ***by volume***		
Viscosity Part A Viscosity Part B Viscosity after mixing (Brookfield RVDV II, Spindle 29, 100 rpm) at 77ºF (25ºC)	cP (mPa·s)	ASTM D2196	2000-2500 200-300 800-1200
Density at 77ºF (25ºC) Part A Part B A+B after mixing	g/cm3 (lb./gal)		1.15 / 9.59 0.95 / 7.96 1.09 / 9.06
Color			Colorless
Pot life at temperature :	ºF (ºC) min		50 (10) 70 (18) 77 (25) 30 20 10
Thickness of the coating	mils (mm)		20-120 (0.5-3)
VOC	%	ASTM D2369	~ 0
Solids Content	%		~ 100
Application temperature	ºF (ºC)		+ 50÷77 (+ 10÷25)
Curing time at temperature: • Dry-To-Touch Time • Light Traffic • Full cure	ºF (ºC) hours hours days	ASTM D1640	50(10) 59 (18) 77 (25) 8 4 2 24 16 12 10 6 3
Performance Properties			
Tensile strength at break	psi (MPa)	ASTM D638	5700-7100 (40-50)
Elongation at break	%	ASTM D638	3 - 7
Hardness (Shore D)		ASTM D2240	75-85
Bound strength to concrete substrate		ASTM D4541 ACI 503.4-2322	Cohesive failure
Abrasion resistance (TABER, Wheel CS-17 1000g), loss of mass.	mg/1000 cycles	ASTM D4060	25-30
Chemical and Stain Resistance			
Weight gain at immersion in water (24 h @ 77ºF / 25ºC)	%	ASTM D570	0.1- 0.5
Weight gain at immersion in 10% H_2SO_4 (24 h @ 77ºF / 25ºC)	%		0.5-1
Sodium hydroxide – 10 % NaOH			No effect
Gasoline			No effect
Motor oil			No effect
Brake fluid			No effect
Vegetable oil			No effect