



OPC POLYMERS

TECHNICAL SERVICE BULLETIN

RADKYD® 110

RadKyd® 110 is an Alkyd based UV Polymer specifically designed for sealer applications. As a sealer, RadKyd®110 improves the adhesion of urethane and epoxy acrylate topcoats. RadKyd® 110 also exhibits excellent gloss/DOI, film clarity and stain resistance making it suitable as a self-sealing topcoat in certain applications.

CHARACTERISTICS

PERCENT ACTIVE POLYMER
 VISCOSITY, cps
 ACID NUMBER
 GARDNER COLOR
 POUNDS PER GALLON
 DILUENT
 CLARITY

TYPICAL SPECIFICATIONS

84 - 86%
 15,000 – 25,000
 13 - 17
 3 Max
 9.10 – 9.20
 14 – 16% (2- Ethylhexyl Acrylate)
 CLEAR

FEATURE

- Substrate Wetting
- Stain and Chemical Resistance
- DOI
- Full Gloss Capability
- Adhesion

APPLICATIONS

- Wood Flooring
- Wood Furniture
- Wood Cabinetry
- Wood Paneling



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STARTING POINT FORMULATION: B-P160B47

RadKyd 110 UV Roll Coat Formulation (Sealer Application)				
POUNDS	GALLONS	ITEM/INSTRUCTIONS	Formula No.	B-P160B47
		CHARGE TO MIXING TANK	Physical Properties	
48.3		RadKyd® 110 ⁽¹⁾	VISCOSITY, 25C, cPs	255
23.57		Mirammer M4004 (Ethoxylated pentaerythritol tetraacrylate) ⁽²⁾	Appearance	Clear
24.74		Sartomer SR 395 (Isodecyl acrylate) ⁽³⁾		
3.39		Irgacure 1173 ⁽⁴⁾	Performance Properties	
			Gloss, 20/60/85	75.7/92.4/96.9
			SUPPLIERS	
			1	OPC Polymers
			2	Rahn USA Corp.
			3	Sartomer
			4	BASF
100.00		TOTAL		

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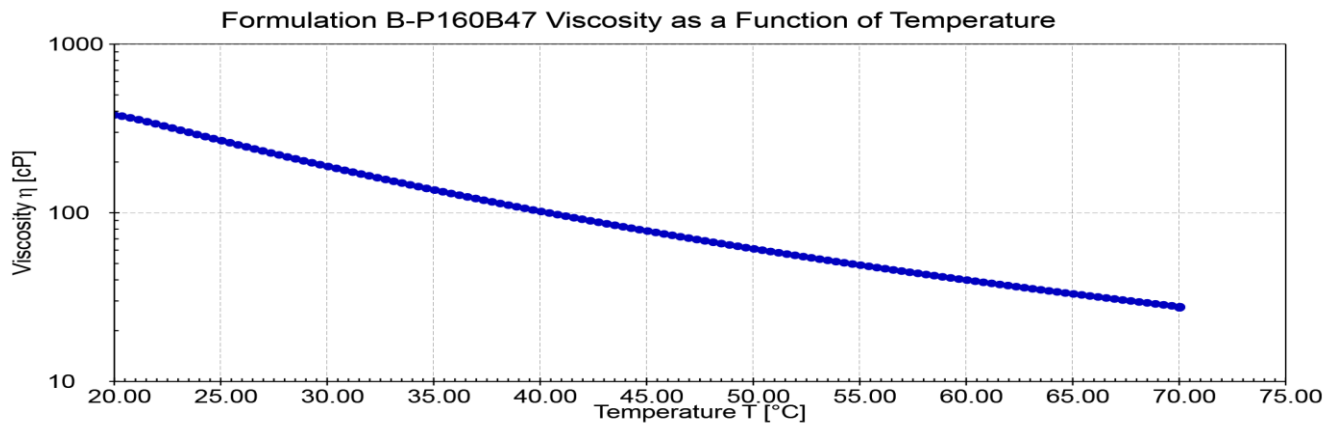
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Viscosity vs Temperature (B-P160B47)



FORMULATION B-P160B47 SEALER PROPERTIES

Viscosity, 25C	255 cps	
Film Appearance, 1mil, Cure Med. Pressure Hg, 934 mj/cm², 0.639 W/cm²		
Visual Clarity	Clear	
Gloss 20/60/85	75.7/92.4/96.9	
Adhesion to Solid Red Oak, 6 coats at 0.3 mil/pass; 1.9 mil total; Cure Med. Pressure Hg, B-Stage cure 303 mj/cm², 0.667 W/cm² per cure pass; full cure 967 mj/cm², 0.690 W/cm² per cure pass		
	Sealer –Alkyd / Topcoat - Urethane	Sealer - Urethane/Topcoat - Urethane
ASTM D2197 Scrape Adhesion, Loop Stylus, (# coats passing 10 Kg)	5 Coats	2 Coats
ASTM D 3359 Tape Adhesion (6 coats)	4B	0B

0B = Worst / 5B = Best



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STAIN RESISTANCE PROPERTIES

	Stain #	Standard Urethane Acrylate Control, Recovered	Alkyd Acrylate B-P160B47 Recovered
Mustard	1	4	4
Ketchup	2	5	5
Cola	3	5	5
Vinegar	4	5	5
Lipstick	5	5	5
Nail Polish	6	5	5
50/50 DI H2O/ETOH	7	5	5
Iodine	8	3.75	4
10% Mercurochrome	9	3.75	4
Bleach	10	4	5
409 Cleaner	11	5	5
Bottled Water	12	5	5
Shoe Polish	13	4.5	4
MEK 15	14	5	5
Acetone 15	15	5	5
Total stain value		70	71
Average stain value		4.7	4.7

0=severe, 5= No Effect

RadKyd® 105 is a registered trademark of OPC Polymers.

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