

Waterborne Polyurethane Formulation for Interior High Gloss Topcoats

with Borchi® Performance Additives

Enabling high performance properties in wood-flooring and cabinetry coatings

O Low VOC

Ø NMP Free

- High Hardness
- High Gloss
- Robust Chemical Resistance
- Improved Solvent Rub
- Excellent Abrasion Resistance



Interior Topcoat Formulation for Wood Flooring and Cabinetry					
Material	Function	Supplier	Formulation		
UROTUF® L63-W-38	Resin	Polynt-Reichhold	82.71		
Ethyl Carbitol	Coalescent	Sigma-Aldrich	8.07		
Mix Three Materials Below Before Adding					
Borchi® Gel 0625	Rheology Modifier	Milliken	0.22		
Ethyl Carbitol	Coalescent	Sigma-Aldrich	0.33		
Water	Solvent	N/A	0.33		
Borchi® Gol LA 200	Flow/Leveling/ Defoamer	Milliken	0.09		
Borchi® Gol LA 50	Substrate Wetting	Milliken	0.12		
Surfynol 104E	Surfactant	Evonik	0.05		
Water	Solvent	N/A	8.08		
		Total	100.00		

Borchi® Performance Additives

- **Borchi**® **Gel 0625:** VOC-free and APEO-free medium shear range HEUR thickener
- **Borchi**® **Gol LA 200:** VOC-free, 100% active air release agent with flow and leveling properties
- **Borchi**® **Gol LA 50:** Substrate wetting additive with flow and leveling properties

Great Overall Solvent Rub Performance

200 Solvent Double Rubs









Excellent Abrasion Resistance



150um wire bar, B1000 panels, conditioned 7 days at 25°C, 50%RH Improved performance compared to market standard formulations

Taber, CS-17 wheel, 1 kg load, 1000 cycles



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Film Performance						
Dry Time, hrs:min ¹		Film Color ²				
Set to Touch	0:13	L*	92.86			
Tack Free	0:20	a*	-0.59			
Through Dry	0:40	b*	4.73			
Gloss¹		König Hardness¹	146.5			
60°	84	Taber Abrasion, mg loss ³	16.1			
20°	94					

 $^{^{1}}$ 3 mil bird bar over glass

³ Taber, CS 17 wheel 1 kg load, 1000 cycles

Chemical Resista	nce		
10% Acetic Acid	2	Lipstick	5
10% Ammonia	5	Mustard	3
Parson's Ammonia	5	Nail Polish Remover	2
Ball Point Ink	5	Olive Oil	5
Black Marker	1	Shoe Polish	5
Bug Spray	1	10% Sodium Hydroxide	5
Cleaner 409	5	1% Spic and Span	5
Coffee	5	10% Sulfuric Acid	5
Dye	3	Sunblock, SPF-50	3
50% Ethanol	1	Tea	5
Fantastic	5	Vinegar	3
lodine	2	Water	5
Ketchup	5	Windex	5

ASTM D1308, 4-hour exposure, covered rating 0-5 no effect



Order your sample at: www.borchers.com/contact



² 3 mil bird bar over leneta chart