

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2006
DateRun: 06/29/2006
Experimenters: Jason Marshall
ClientType: Consultant
ProjectNumber: Project #1
Substrates: Wood
PartType: Coupon
Contaminants: Coatings
Cleaning Methods:
Analytical Methods: Light Meter

Purpose: To evaluate gloss of various floor finishes.

Experimental Procedure: To determine the amount of "shine" the floor finishes created, baseline gloss readings were made on uncoated wood coupons. A SPER Scientific Light Meter 840021 measuring Foot Candles from the surface to represent gloss readings. Three readings were made for each coupon, in the middle, and at both ends. The three coupons that were to be coated with the same finish were then averaged and recorded as the product average baseline. The same procedure was followed to determine the finished coupon average after the three coats were applied and allowed to cure for 24 hours. The finished coupon average and the baseline average were then compared to determine the increase or decrease in gloss. Results for the Gloss readings were compared for the various floor finishes.

Results: All four products tested resulted in a lower set of light meter readings after application of the three coats. Despite the apparent gloss finish of the products, each product set resulted in the wood blocks becoming darker in color. This deepening in color yielded lower final light meter readings. The current practice was the darkest in color.

Increase in Light Readings					
	Initial	Final	Final - Initial	Coupon Ave	Product Ave
CP 1	7.17	5.59	-1.58		-1.06
	7.26	5.74	-1.51		
	8.06	6.74	-1.32	-1.47	
CP2	7.84	6.27	-1.57		
	7.80	6.85	-0.95		
	7.05	6.30	-0.76	-1.09	
CP3	7.50	6.42	-1.08		
	7.53	6.17	-1.36		
	7.55	6.92	-0.63	-1.02	
CP4	7.52	6.88	-0.64		
	7.29	6.50	-0.78		
	7.25	6.69	-0.56	-0.66	
MCP1	7.64	6.72	-0.93		-0.81
	6.99	6.58	-0.41		
	7.31	6.52	-0.79	-0.71	
MCP2	7.35	6.50	-0.86		
	6.93	6.18	-0.75		
	6.69	6.07	-0.62	-0.74	
MCP3	7.59	7.35	-0.25		
	7.36	6.56	-0.80		
	7.04	6.00	-1.04	-0.69	
MCP4	7.54	6.32	-1.21		
	7.57	6.27	-1.31		
	6.69	5.90	-0.80	-1.11	
BO1	7.07	5.81	-1.26		-0.92
	6.56	5.71	-0.86		
	7.65	6.14	-1.51	-1.21	

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BO2	7.37	6.33	-1.04		
	7.25	6.26	-0.99		
	6.99	6.42	-0.57	-0.87	
BO3	6.83	6.00	-0.83		
	7.87	7.05	-0.82		
	7.43	6.21	-1.22	-0.96	
BO4	7.05	6.42	-0.63		
	7.65	7.15	-0.50		
	7.48	6.72	-0.76	-0.63	
BW1	7.51	7.11	-0.40		-0.61
	7.09	6.82	-0.27		
	7.70	7.23	-0.47	-0.38	
BW2	7.19	6.59	-0.60		
	7.35	6.76	-0.59		
	7.04	6.95	-0.09	-0.43	
BW3	7.79	6.96	-0.83		
	7.51	7.12	-0.39		
	8.26	7.29	-0.96	-0.73	
BW4	7.95	7.36	-0.58		
	8.43	7.34	-1.09		
	7.57	6.54	-1.03	-0.90	
Blank1	6.91	7.32	0.41		0.09
	8.20	8.15	-0.05		
	7.68	7.83	0.15	0.17	
Blank2	7.22	7.40	0.18		
	6.96	6.97	0.01		
	7.39	7.53	0.14	0.11	
Blank3	7.23	7.75	0.52		
	8.02	7.89	-0.14		
	7.54	7.90	0.35	0.25	
Blank4	8.06	7.96	-0.10		
	7.57	7.44	-0.13		
	8.08	7.84	-0.24	-0.16	

Summary:

Conclusion:

All four product coating procedures resulted in decreased light meter readings due to the deepening of the color of the wood.