CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2005
DateRun:	09/12/2005
Experimenters:	Jason Marshall
ClientType:	Environmental Service Firm
ProjectNumber:	Project #1
Substrates:	Wood
PartType:	Coupon
Contaminants:	Coatings
Cleaning Methods:	
Analytical Methods:	Light Meter
Purpose:	To evaluate gloss for sealer and coating together.
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:

Light Meter Reading

Initial					
Coupon ID	Middle	End 1	End 2	Ave Light	Overall Ave.
a	8.62	8.22	8.51	8.45	7.86
b	8.43	7.91	8.43	8.26	
c	7.84	8.12	7.87	7.94	
d	7.69	7.44	7.38	7.50	
e	7.76	7.34	8.06	7.72	
f	7.81	7.62	7.59	7.67	
g	7.67	7.24	7.6	7.50	
h	8.22	7.56	7.81	7.86	
i	7.84	7.8	7.75	7.80	
Final					
Coupon ID	Middle	End 1	End 2	Ave Light	Overall Ave.
a	8.46	8.63	8.7	8.60	9.03
b	9.59	8.81	8.86	9.09	
c	9.3	9.02	9.34	9.22	
d	9.61	9.21	8.53	9.12	
e	9.25	9.01	9.22	9.16	
f	8.9	8.84	8.57	8.77	
g	8.38	8.3	9.34	8.67	
h	9.56	9.43	9.37	9.45	
i	9.21	9.3	9.08	9.20	

Increase in Light Readings

Initial	Final	Final - Initial
7.86	9.03	1.17

Comparison to individual components

Floor Finishes	Initial	Final	Delta
Capitol Hydro 202 Satin	6.70	4.14	-2.56
Capitol Polyurethane Gloss	6.73	7.05	0.32
	6.42	7.03	0.61

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Pro Finisher Water Based Polyurethane for floors			
Pro Finisher Water Based Sanding Sealer	6.18	6.74	0.56
Quide SA Aqua Deva Metro	6.26	7.19	0.92
SafeCoat BP Satin	6.65	4.72	-1.93
SafeCoat BP Gloss	6.91	4.46	-2.45
Capitol Hydro 202 Satin	6.70	4.14	-2.56
Kiilto Lacquer	6.72	8.99	2.27
Kiilto Primer + Lacquer	7.02	8.75	1.74
Pro Finisher Water Based Sanding Sealer & Polyurethane	7.86	9.03	1.17

Summary:

Conclusion: The light readings increased more when the two products were used in conjunction with each other.