CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2005

DateRun: 06/21/2005

Experimenters: Jason Marshall

ClientType: Environmental Service Firm

ProjectNumber: Project #1

Substrates: Wood

PartType: Coupon

Contaminants: Coatings

Cleaning Methods:

Analytical Methods: Light Meter, Performance Test

Purpose: To evaluate gloss for additional 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:

		Initial Baseline					Final				Average Difference		
	Coupon	Middle	End 1	End 2	Average	Product Average	Middle	End 1	End 2	Average	Final Ave - Initial Ave	Product Difference	Product Average
SafeCoat BP Satin	2	5.72	5.69	5.40	5.60	5.98	4.17	3.97	4.81	4.32	4.58	-1.29	-1.41
	3	6.86	6.71	5.79	6.45		5.06	5.47	5.03	5.19		-1.27	
	4	6.07	6.16	5.46	5.90		4.06	4.33	4.30	4.23		-1.67	
	5	6.83	6.67	6.15	6.55	6.37	4.84	5.84	5.36	5.35	4.80	-1.20	-1.58
	6	6.31	6.23	5.58	6.04		4.78	4.28	4.51	4.52		-1.52	
	7	6.62	6.78	6.20	6.53		4.71	4.43	4.44	4.53		-2.01	
	8	7.79	8.12	7.36	7.76	7.60	4.54	4.60	4.88	4.67	4.80	-3.08	-2.80
	9	8.31	7.83	7.58	7.91		5.12	4.91	4.92	4.98		-2.92	
	10	6.91	7.81	6.67	7.13		4.61	4.96	4.62	4.73		-2.40	
SafeCoat BP Gloss	11	7.61	7.67	8.09	7.79	7.37	3.95	4.21	4.00	4.05	4.48	-3.74	-2.88
	12	8.05	8.31	7.82	8.06		4.74	5.56	5.03	5.11		-2.95	
	13	6.21	6.42	6.13	6.25		4.33	4.23	4.30	4.29		-1.97	
	14	6.03	6.54	5.72	6.10	6.73	4.39	4.38	4.21	4.33	4.31	-1.77	-2.42
	15	7.13	7.20	7.32	7.22		4.42	4.51	4.21	4.38		-2.84	
	16	7.10	6.77	6.78	6.88		4.20	4.39	4.08	4.22		-2.66	
	17	6.36	6.14	6.28	6.26	6.64	4.44	4.72	4.66	4.61	4.60	-1.65	-2.04
	18	6.93	6.99	7.15	7.02		4.60	4.35	4.82	4.59		-2.43	
Capitol Hydro 202 Satin	19	6.58	6.61	6.59	6.59	7.11	4.33	4.18	4.31	4.27	4.21	-2.32	-2.91
	20	7.20	7.30	7.21	7.24		4.33	4.11	4.15	4.20		-3.04	
	21	7.73	7.34	7.47	7.51		4.15	4.18	4.13	4.15		-3.36	
	34	6.96	6.99	6.27	6.74	6.49	4.05	3.95	4.00	4.00	3.99	-2.74	-2.49
	35	6.47	6.55	6.54	6.52		4.28	4.02	4.14	4.15		-2.37	
	36	6.29	6.06	6.24	6.20		4.06	3.41	4.02	3.83		-2.37	
	49	7.10	7.57	6.40	7.02	6.49	4.26	4.28	4.27	4.27	4.22	-2.75	-2.27
	50	6.34	6.04	6.21	6.20		4.16	4.00	4.49	4.22		-1.98	
	51	6.40	6.22	6.11	6.24		4.18	4.01	4.29	4.16		-2.08	

Summary:

Conclusion: The products tested yielded coupons that were not as 'shiny' as the initial uncoated boards resulting in a lower light meter reading than the initial readings (final negative number).