CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2014

DateRun: 06/15/2014

Experimenters: Ruth Tejada

ClientType: Cleaner Manufacturer

ProjectNumber: Project #3

Substrates: Vinyl Composite Tiles

PartType: Coupon

Contaminants: Paints

Cleaning Methods: Manual Wipe

Analytical Methods: Gloss-Color Meter

Purpose: To evaluate effects of cleaners on painted products for stain removal or cleaning purposes.

Experimental Procedure: The coupons were coated with Gidden Ceiling interior paint with matte sheen and allowed to dry for approximately 1 hour. After drying another coat was applied to the coupon and allowed to dry for another hour. The last coat was put on the coupons and allowed to dry for another hour. The coupons were sprayed with the specified cleaner below until the coupon was entirely covered with a small layer of liquid. After 15 minutes the coupons were blotted dry. Lastly pictures were taken to evaluate texture and visual removal of the paint.

ChemistriesEvaluated: TSP Substitute, Motsenbocker’s, Moldex Paint Prep

Results: The coupons that had TSP Substitute applied showed visual evidence of the painting wearing off the surface. Evidence of change in paint was in the form of bubbles on the surface and paint peeling off of surfaace. The other two products did not have noticeable changes to the surface. The gloss readings did not reveal any changes in the surface either. In most instances the gloss readings increased. When evaluating the L values (black-white scale), the TSP substitute reduced the whiteness of the surface more than Motsenbocker and Envirocare products.

Cleaners: TSP Substitute (1)

Motsenbocker's(2)						
Moldex Paint Prep (3)						
Substrate	Coupon #	Cleaners	L* Initial	G* Initial	L* Final	G* Final
VCT Painted Tiles	1	1	90.42	2	88.09	3.5
	2	1	90.92	2	87.7	3.3
	3	1	90.82	2	83.82	2.9
	4	2	90.78	2	86.72	1.9
	31	2	90.81	1.9	87.15	1.9
	5	2	90.21	2	88.41	2
	11	3	90.82	2	87.18	2.6
	6	3	91.06	2	88.44	2.3
	38	3	90.94	2	90.27	2.3

Summary

Product	Ave L Initial	Ave L Final	Delta L	Ave Gloss Initial	Ave Gloss Final	Delta G
TSP Substitute	90.72	86.54	4.18	2	3.23	-1.23
Motsenbocker	90.6	87.43	3.17	1.97	1.93	0.03
Moldex Paint Prep	90.94	88.63	2.31	2	2.4	-0.4

Summary:

Substrates:	Vinyl Composite Tiles				
Contaminants:	Paints				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Savogran Company	TSP Substitute	100	0.00	☑	
EnviroCare Corporation	Moldex Disinfectant	100	0.00	☐	

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Motsenbocker's	Motsenbocker Paint Prep	100	0.00	☐	
Fisher Scientific	Absolute Ethanol	0	0.00	☐	

Conclusion: Product 1 was found to affect the painted products. The two other cleaning products supplied for testing had no visual change in surface characteristics.