

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2009
 DateRun: 01/27/2009
 Experimenters: Jason Marshall
 ClientType: Community Group
 ProjectNumber: Project #1
 Substrates: Ceramics, Fiberglass, Chrome
 PartType: Coupon
 Contaminants: Films, Soaps
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric

Purpose: To evaluate supplied recipes for bathroom cleaning using manual wiping.

Experimental Procedure: The supplied cleaning formulations were made up following supplied recipes. An additional product was included for bathroom cleaning. Preweighed ceramic, chrome and fiberglass coupons were coated with SSL Soil 1 (Bathroom soap scum: All-in-one shampoo and conditioner 28.6%, Dry skin lotion 21.4%, Liquid hand soap 21.4%, Liquid body wash 14.3%, Deodorant bar soap 7.2% and water 7.1%.) using a handheld swab and allowed to dry for 24 hours at room temperature. The contaminated coupons were weighed again to determine the amount of soil added.

Three coupons were placed into a Gardner Straight Line Washability unit. A Kimberly Clark Reinforced paper towel was attached to the cleaning sled and soaked with 5-7 sprays of cleaning solutions. Each coupon was sprayed 7-10 times with the same cleaning solution. The solution was allowed to penetrate for 30 seconds followed by cleaning in the SLW unit for 20 cycles (~33 seconds). At the end of the cleaning, coupons were using a water soaked paper towel to rinse any cleaner residue (if necessary and then wiped once with a dry paper towel. Final weights were recorded. Efficiencies were calculated and recorded.

Results: The supplied products and industry product were effective in removing the Bathroom soil with a manual wiping action. The table lists the amount of soil initially added and the amount remaining after cleaning and the product efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
BWG Fantastic - ceramic	0.2238	0.0321	85.66
	0.3439	0.0466	86.45
	0.2046	0.0493	75.90
BWG Fantastic - chrome	0.4033	0.0063	98.44
	0.4604	0.0063	98.63
	0.2923	0.0187	93.60
BWG Fantastic - fiberglass	0.5006	0.0088	98.24
	0.4663	0.0087	98.13
	0.2417	0.0023	99.05
BWG Magic - ceramic	0.2671	0.0239	91.05
	0.2979	0.0163	94.53
	0.2865	0.0202	92.95
BWG Magic - chrome	1.1904	0.0121	98.98
	0.1638	0.0085	94.81
	0.2490	0.0141	94.34
BWG Magic - fiberglass	0.3947	0.0121	96.93
	0.3309	0.0158	95.23
	0.3203	0.0289	90.98
Comet Bathroom - ceramic	0.2465	0.0851	65.48
	0.2026	0.0582	71.27

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	0.2554	0.0588	76.98
Comet Bathroom - chrome	0.1533	0.0105	93.15
	0.2497	0.0093	96.28
	0.2302	0.0114	95.05
Comet Bathroom - fiberglass	0.4257	0.0411	90.35
	0.2676	0.0542	79.75
	0.3803	0.0442	88.38

Summary:

Substrates:	Ceramics, Fiberglass, Chrome				
Contaminants:	Films, Soaps				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Brazilian Womens Group	Fantastico Multi-Usa	100	92.68	<input checked="" type="checkbox"/>	
Brazilian Womens Group	Sabao Magico	100	94.42	<input checked="" type="checkbox"/>	
Prestige Brands Inc	Comet Bathroom Cleaner	100	84.07	<input type="checkbox"/>	

Conclusion:

The supplied products had an overall average efficiency greater than 85% and would be considered effective based on the SSL testing methodology for bathroom cleaning and for Green Seal GS 37 requirements.