CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 11/09/2021

Experimenters: Nicole Kebler, Tatyanna Moreland Junior

ClientType: Lab

ProjectNumber: Project #5

Substrates: Ceramics, Plastic, Chrome

PartType: Coupon

Contaminants: Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the effectiveness for the removal of bathroom soil from ceramic, chrome, and plastic using Honest cleaner.

Experimental Procedure: Three coupons of each substrate (ceramic, chrome, and plastic) were collected and initial weights were taken. Bathroom soil was applied to each coupon and allowed to air dry for 24 hours. After the 24 hour dry time, the weights of the newly contaminated coupons were measured. All coupons were placed into a Straight-Line Washability (SLW) machine. A KC Wypall cleaning cloth was attached to the cleaning block used for the test. The Wypall cloth and all coupons received 2 sprays of the Honest Cleaner and the SLW machine was run for 20 repetitions, simulating 20 manual wipes. Once cleaning concluded, the cleaned coupons were allowed to air dry for 24 hours. After 24 hours, the weights of the cleaned coupons were measured.

Results: Plastic had the most removed with a effectiveness of 83% removal. Ceramic had 76% removal and chrome had 74% removal. Some soil was still left on the edges of the coupons.

Substrate	Initial wt. of cont.	Final wt. of cont	Average	Combined Average
Ceramic	0.0953	0.0257	73.03	75.66
	0.0653	0.0083	87.29	
	0.0966	0.0322	66.67	
Chrome	0.1152	0.0428	62.85	73.93
	0.1453	0.0271	81.35	
	0.0701	0.0157	77.60	
Plastic	0.0665	0.0029	95.64	83.14
	0.0657	0.0155	76.41	
	0.0712	0.0161	77.39	

Summary:

Conclusion: Honest was effective at removing bathroom soil from plastic but left some soil on the surface of the chrome and ceramic coupons.