

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021
 DateRun: 07/21/2021
 Experimenters: Nicole Kebler
 ClientType: Cleaner Manufacturer
 ProjectNumber: Project #2
 Substrates: Ceramics, Plastic, Chrome
 PartType: Coupon
 Contaminants: Films, Soaps
 Cleaning Methods: Manual Wipe
 Analytical Methods: Gravimetric, Visual
 Purpose: To evaluate the effectiveness of bathroom cleaners for the removal of bathroom soil from ceramic, chrome, and plastic.

Experimental Procedure: The provided tablet was placed in the provided spray bottle and was completely dissolved in 32 oz. of warm tap water. Three coupons for each substrate were weighted for initial weights. Using the Janitorial Standard Bathroom-GS 37, the coupons were soiled on one side and were left to dry for 24 hours. After the coupons were dry, they were loaded in the Straight Line Washability Unit (SLW) three at a time by substrate. A Kimberly-Clark Wypall was attached to the cleaning sled and was sprayed twice with the cleaner. Each coupon was also sprayed two times before the SLW unit ran for 20 cycles. After the 20 cycles, the coupons were placed on a tray and were left out to dry overnight. The final weights were taken once dry.

Cleaners:

1. Amazon Aware Bathroom Cleaner
2. Clorox Bathroom

Substrates:

1. Ceramic
2. Chrome
3. Plastic

Cleaner	Substrate	Initial wt. of Cont	Final wt. of cont	Cont. Removed	Average % Removal	Overall % Removal
A	1	0.1032	0.0183	82.27	81.70	87.33
		0.1174	0.0164	86.03		
		0.078	0.0181	76.79		
	2	0.0676	0.0047	93.05	91.66	
		0.0631	0.0056	91.13		
		0.0565	0.0052	90.8		
	3	0.0634	0.0069	89.12	88.63	
		0.0795	0.0081	89.81		
		0.0645	0.0084	86.98		
B	1	0.0795	0.0126	84.15	82.11	86.00
		0.0606	0.0114	81.19		
		0.0584	0.0111	80.99		
	2	0.046	0.0083	81.96	91.83	
		0.0416	0.0019	95.43		
		0.0265	0.0005	98.11		
	3	0.0542	0.0072	86.72	84.06	
		0.0756	0.0085	88.76		
		0.0395	0.0092	76.71		

Summary:

Conclusion: Amazon Aware Bathroom Cleaner with one table was more effective overall than Clorox Bathroom at removing bathroom soil from the chrome, ceramic, and plastic substrates.