CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2015
DateRun:	01/29/2015
Experimenters:	Francisco Abreau
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #2
Substrates:	Ceramics, Wood, Vinyl Composite Tiles
PartType:	Coupon
Contaminants:	Greases, Food
Cleaning Methods:	Manual Wipe
Analytical Methods:	Gravimetric
Purpose:	To evaluate supplied product for painted tile, coated wood, and ceramic surface cleaning effectiveness.
Experimental Procedure:	The supplied cleaning products were used at the recommended concentration. Preweighed painted tile, coated wood, and ceramic coupons were coated with a layer of DCC-17 soil using a hand held swab and allowed to air 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 Wypall X60 reinforced wipe was attached to the cleaning sled and soaked with 1 spray of cleaning solutions. Each coupon was sprayed 1-2 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 wiped once with a dry paper towel. Final weights were recorded and efficiencies were calculated and recorded.
Results:	Only one of the products supplied of the three were effective at removing the DCC-17 soil from the three surfaces using manual wiping. The Pledge product resulted in the lowest efficiency, removing at an average of just 64.36% of the DCC-17 soil. The table lists the amount of soil added, the amount remaining after cleaning and the average calculated cleaning efficiency for each coupon cleaned.

Cleaner	Initial wt	Final wt	% Removed
Artik All Purpose - Ceramic	0.4948	0.0767	84.50
Artik All Purpose - Ceramic	1.1071	0.0544	95.09
Artik All Purpose - Ceramic	0.4172	0.0384	90.80
Artik All Purpose - Painted Tile	0.2630	0.1452	44.79
Artik All Purpose - Painted Tile	0.3926	0.1047	73.33
Artik All Purpose - Painted Tile	1.0805	0.1361	87.40
Artik All Purpose - Coated Wood	0.4680	0.1441	69.21
Artik All Purpose - Coated Wood	0.2395	0.1086	54.66
Artik All Purpose - Coated Wood	0.7335	0.1074	85.36
Artik Floor - Ceramic	0.2800	0.0906	67.64
Artik Floor - Ceramic	0.4795	0.0889	81.46
Artik Floor - Ceramic	0.4808	0.1970	59.03
Artik Floor - Painted Tile	0.5538	0.2303	58.41
Artik Floor - Painted Tile	0.9540	0.1309	86.28
Artik Floor - Painted Tile	0.4543	0.0895	80.30
Artik Floor - Coated Wood	0.4287	0.0980	77.14

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Artik Floor - Coated Wood	3.0777	0.5881	80.89
Artik Floor - Coated Wood	0.3097	0.0616	80.11
Pledge - Ceramic	0.5787	0.2359	59.24
Pledge - Ceramic	1.3070	0.7001	46.43
Pledge - Ceramic	0.2125	0.0049	97.69
Pledge - Painted Tile	0.4409	0.0826	81.27
Pledge - Painted Tile	0.3661	0.0819	77.63
Pledge - Painted Tile	0.2929	0.1055	63.98
Pledge - Coated Wood	0.5373	0.1093	79.66
Pledge - Coated Wood	0.3887	0.2069	46.77
Pledge - Coated Wood	0.5036	0.1680	66.64

Summary:

Substrates:	Ceramics, Wood, Vinyl Composite Tiles				
Contaminants:	Greases, Food				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Oresch	Artik All Purpose Cleaner	100	76.13	☑	
Oresch	Artik Floor Cleaner	100	74.58	☑	
SC Johnson & Son Inc	Pledge Lemon Clean Aerosol	100	68.81	☐	

Conclusion:

The Artik All Purpose cleaning solution was found to be most effective at removing the DCC-17 soil from the ceramic substrates as it yielded a 76.13% on average. Both supplied products removed more than comparative product Pledge.