

CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2011							
DateRun:	08/03/2011							
Experimenters:	Timothy Weil, Mahi	ima Tank						
ClientType:	Cleaner Manufactu	urer						
ProjectNumber:	Project #1							
Substrates:	Ceramics							
PartType:	Coupon							
Contaminants:	Dirt							
Cleaning Methods:	Manual Wipe							
Analytical Methods:	Gloss-Color Meter							
Purpose:	To evaluate the su	pplied pro	duct for flo	orcle	aning	following	g ASTN	1 D5343-06 preparation methods.
Experimental Procedure:	24 hours. Gloss me spectro-guide 45/0 brought up to a ter	eter readir 0 gloss me mperature	ngs for refle ter. A Blue range of 7	ectanc M Elec '0-80 c	e wer ctric Co degree	e then ta o. Stabil- es. The c	ken of Therm oupon	ere hand-washed and then air-dried for the coupons using a BYK-Gardner gravity oven was turned on and s were then placed in the oven and on the oven to apply the client provided
	large beaker was p filled halfway with brought up to 70-8 beaker that was pl it was time for the placed on a tray. T application brush	placed on water and 30 degrees laced insid soil to be he tray wi was used and the te	a 120 Mini a thermor celsius. A le the beak applied to th the coup to apply the mperature	Hotpla neter portio cer of the co pons w e soil. was a	ate Sti was pl on of tl 70-80 upons vas pla Once again i	rrer, a pr laced in t he ASTM Degree (s. The co aced on t the soil v maintain	oduct the wa 5343 Celsius upons he cou vas ap ed at 7	ng, the soil preparation was begun. A of Henry Troeman LLC. The beaker was ter. The hotplate was turned on and D soil was placed in a second smaller s water. The soil was gently stirred until were removed from the oven and unter next to the hotplate and an plied, the coupons were placed in the 70-80 degrees Celsius. After an hour the pol for 24 hours.
	placed in the inline center. The coupor on the cleaning pa sprayed with the c	e unit alon n received ad which w convention	g with two 3 sprays o as made u al cleaning	clean of the c p of a g chem	coupo convei Wypa nistry t	ons, one ntional cl l X-60 rei to mainta	at eith leanin inforce ain clea	eaning. A single soiled coupon was ler end with the soiled coupon in the g chemistry on its surface with 5 sprays ed paper towel and the coupon was aning chemistry during cycling. These ved. The coupons were cycled 150
	A set of soiled coupons were then placed in the inline unit, prepared in the same manner and cycled 15 times while having the conventional chemistry applied in the manner previously described and then the coupons were removed from the unit. A second set of soiled coupons were then placed in the inline uni prepared in the same manner and cycled 150 times while having the Clorox Greeworks Natural Neutral Floor Cleaner 1:64 chemistry applied in the manner previously described. The coupons were then removed from the inline unit and allowed to dry for 12 hours at which times the visual evaluations were made, and reflectance meter readings taken.						ner previously described and then the ons were then placed in the inline unit, the Clorox Greeworks Natural Neutral scribed. The coupons were then	
Results:	The Clorox product where the compara	t resulted ative prod soiled and	in the lowe uct remove after clean	st efficed clos	ciency se to 1	, removir 00 perce	ng just ent. Th	ceramic surface using manual wiping. over 62% of the ASTM 5343D soil e table lists the reflectance prior to ciency for each coupon cleaned based
		nitial Dirty (Ro) (Rs)) Rc- Rs	Ru- Rs	[Rc-Rs/ (Ru- Rs)]*100	Ave %	
	Greenworks Natural Neutral Cleaner 1:64	32.68 68.2					62.21	
		31.43 60.2				30.82		
		32.36 59.3 31.64 55.4				58.44 101.03	99.62	
		1	01.00	22.65		00.00		

81.55 57.82

81.84 46.45

81.28

23.4623.73 98.86

81.48 35.0335.39 98.98



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Visual Rating

	Ranking 1	Ranking 2	Ranking 3	Avg
Clorox Greenworks Natural Floor Cleaner 1:64	65	53	65	61
Zep Neutral Floor Cleaner Concentrate 1:44	85	83	85	84

Summary:

Substrates:	Ceramics						
Contaminants:	Dirt	Dirt					
Company Name:		Product Name:	Conc.:	Efficiency:	Effective:	Observations:	
ZEP Manufacturing Company		Neutral Floor Cleaner Concentrate	2.2	99.00	V		

Conclusion:

Performance during testing differed from test preparation run leading to the conclusion that the test results warrant repeating the test to ensure consistency.