CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007

DateRun: 09/05/2007

Experimenters: Jason Marshall

ClientType: Cleaner Manufacturer

ProjectNumber: Project #1

Substrates: Plastic

PartType: Part

Contaminants: Coatings

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: To evaluate supplied floor stripper at two concentrations on two supplied coated floor tiles with 4 and 7 coats of floor finish

Experimental Procedure: The supplied floor stripper was diluted to 1:20 (5%) and 1:12 (8.3) concentrations using DI water as requested by client. Each solution was applied to a coated floor tile and allowed to soak for 8 minutes. Tiles were coated with J-Green 36 Finish (20% solids) Non-Zinc Floor finish. One tile had 4 coats and the second had 7 coats. The 1:20 dilution was tested on both the 4 and 7 coats and the 1:12 was only tested on the 7-coat tile.

After soaking, the coupons were scrubbed clean using a section of a floor stripping buffing pad. The pad was placed in a Gardner Straight Line washability unit and the unit was run for 50 oscillations. At the end of the scrubbing, the tile was blotted dry with a paper towel and then observed to determine the amount of finish remaining. If the tile was not completely stripped, additional stripper was applied and the unit was run for another 50 cycles. The total number of oscillations to remove the coatings were recorded as a measure of removability.

The method used followed the recommendations for GS 40 (which referenced ASTM D1792-06).

Results: Both dilutions of the floor stripper worked well on the various coating levels. The 20:1 dilution needed only 50 cycles to remove the 4 coatings of finish and 100 cycles for the 7 coat finish. The 12:1 dilution needed the 50 cycles to remove the 7 coats.

Dilution	#Coats	Observations	GS-40/ ASTM Ranking
20:01	4	50 cycles appeared to be enough	Excellent <50
		Ran a second set of 50 cycles to make certain all finish was removed	
20:01	7	Needed more than the 50 cycles but was complete after 100 cycles	Good >50 but<100
12:01	7	All clear after 50 cycles	Excellent <50

Summary:

Substrates:	Plastic				
Contaminants:	Coatings				
Company Name:	**Product Name:**	**Conc.:**	**Efficiency:**	**Effective:**	**Observations:**
Next-Gen Supply Group	PC 118 EPS Stripper	5	0.00	☑	4 coats 50 cycles
Next-Gen Supply Group	PC 118 EPS Stripper	5	0.00	☑	7 coats 100 cycles
Next-Gen Supply Group	PC 118 EPS Stripper	8.3	0.00	☑	7 coats 50 cycles

Conclusion: The 20:1 dilution was ranked as excellent on the 4 coats and good on the 7 coats. The 12:1 dilution was ranked as excellent on the 7 coats.