

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2013  
 DateRun: 10/28/2013  
 Experimenters: Junhee Cho, Loc Nguyen, Jonathan Oljey, Eyob Befekadu  
 ClientType: Cleaning Equipment Mfr  
 ProjectNumber: Project #1  
 Substrates: Vinyl Composite Tiles  
 PartType: Coupon  
 Contaminants: Dirt  
 Cleaning Methods: Mechanical Agitation  
 Analytical Methods: Gravimetric, Visual, Timing  
 Purpose: To evaluate four supplied products for all purpose cleaning  
 Experimental Procedure: 120 grams of sand was spread across 40 square feet of floor tile (3 grams per tile). The mop was soaked and wringed for 10 seconds each. The Qleeno was operated on lowest water output and highest water suction. The remaining soil was then collected and weighed.  
 Methods Evaluated: Manual Mop; Qleeno

Results: The dry time for the Qleeno floor testing was approx. 5 minutes, while the dry time for the mop was approximately 1 hour. Visually, the Qleeno looked much cleaner than the mopping, as mopping left behind large spots of soil.

Cleaner	Initial wt	Final wt	% Removed	Set Up time (sec)	Run Time (sec)	Total Time (sec)	Average Efficiency	Ave Run Time
Mop	119.8890	39.2936	67.23	148.0000	60.00	208.00	57.65	56.33
	120.1668	55.6345	53.70	145.0000	53.00	198.00		
	119.4796	57.3252	52.02	143.0000	56.00	199.00		

Results for No Obstacles

No Obstacle	Method	Initial soil wt (g)	Residual soil on floor(g)	collected soil from floor (g)	soil removal (%)	AVG of s
3 levels of water flow	Qleeno	120.00	45.24	74.76	62.30	6
	Qleeno	120.18	43.75	76.44	63.60	
	Qleeno	120.28	43.42	76.86	63.90	
	Qleeno	119.89	45.75	74.14	61.84	5
	Qleeno	120.01	51.02	68.99	57.49	
	Qleeno	120.12	60.96	59.16	49.25	
	Qleeno	120.21	55.19	65.02	54.09	6
	Qleeno	120.24	38.68	81.56	67.83	
	Qleeno	120.02	46.30	73.72	61.42	

Summary:

<b>Substrates:</b>		Vinyl Composite Tiles			
<b>Contaminants:</b>		Dirt			
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Water	Water	100	57.65	<input type="checkbox"/>	Mop - Ave time 56.3
Water	Water	100	63.27	<input type="checkbox"/>	Low flow high suction - Ave time 60
Water	Water	100	56.19	<input type="checkbox"/>	medium flow high suction - Ave time 56.19
Water	Water	100	61.11	<input checked="" type="checkbox"/>	high flow high suction - Ave time 61.11

Conclusion: Both methods worked with essentially the same efficiency. The dry time for the Qleeno floor testing was approx. 5 minutes, while the dry time for the mop was approximately 1 hour. Visually, the Qleeno looked much cleaner than the mopping, as mopping left behind large spots of soil.