

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2009
 DateRun: 06/08/2009
 Experimenters: Jason Marshall, Junhee Cho, Timothy Weil
 ClientType: Cleaner Manufacturer
 ProjectNumber: Project #1
 Substrates: Glass/Quartz
 PartType: Coupon
 Contaminants: None
 Cleaning Methods:
 Analytical Methods: Timing
 Purpose: To evaluate aerosol multi-surface cleaners for vertical adhesion to glass surface

Experimental Procedure: A large glass window was cleaned using Green Works Glass Cleaner from Clorox to ensure uniform clean surface. Once dry each of the test aerosol products were sprayed for 1-2 seconds onto the surface. A timer was started to determine the time the cleaner took to travel 1 foot (30 cm). A second observation was made to see how much movement was achieved for the products for a total of 2 minute. At the end of 2 minutes the distance traveled by the product was recorded.

For products that need more than 1 minute to travel the 30 cm, time will be recorded as greater than 2 minutes and receive a score of excellent. For products that run down the entire length of the window (4 feet) in less than the 2 minutes, the distance will be recorded as greater than 4 feet and will receive a score of poor.

Time rating	
120	Excellent
60	Good
30	Okay
15	Fair
<15	Poor
Distance rating	
<1	Excellent
1	Good
2	Okay
3	Fair
4	Poor

Results:	Product	Time for 1 foot	Rating	Distance in 2 minutes	Rating	
	A00166	>2 min	1	9	2	
		>2 min	1	5.25	1	
		>2 min	1	7.5	2	
	Product Average		1.0		1.7	1.3
	A00170	>2 min	1	4.5	1	
		>2 min	1	6.25	2	
		>2 min	1	7	2	
	Product Average		1.0		1.7	1.3
	SD-20	1 min 12 sec	2	39	4	

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	1 min 9 sec	2	48	5	
	1 min 12 sec	2	48	5	
Product Average		2.0		4.7	3.3
CLAIRE MR. JINX APC	1 min 12 sec	2	7.5	3	
	1 min 27 sec	2	19	3	
	>2 min	1	7.25	2	
Product Average		1.7		2.7	2.2
409 ANTIBACTERIAL	8 sec	5	48 in in 37 sec	5	
	6 sec	5	48 in in 46 sec	5	
	5 sec	5	48 in in 47 sec	5	
Product Average		5.0		5.0	5

Summary:

Substrates:	Glass/Quartz				
Contaminants:	None				
Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Amrep Inc	Aspire Heavy Duty Multipurpose Cleaner A00166 Aerosol	100		<input checked="" type="checkbox"/>	Rank = 1
Amrep Inc	Misty All Purpose Cleaner A00170 Aerosol	100		<input checked="" type="checkbox"/>	Rank = 1
Spartan Chemical Company	SD 20 All Purpose Degreaser Aerosol	100		<input type="checkbox"/>	Rank = 4
Claire Manufacturing	Mr Jinx All Purpose Cleaner Aerosol	100		<input checked="" type="checkbox"/>	Rank = 3
Clorox Company	Formula 409 All Purpose Cleaner	100		<input type="checkbox"/>	Rank = 5

Conclusion:

The two Amrep products in the multi-surface cleaner category had the best performance for vertical cling have good to excellent scores.