CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2008
DateRun:	08/07/2008
Experimenters:	Heidi Wilcox, Shweta Bansal
ClientType:	Cleaner Manufacturer
ProjectNumber:	Project #1
Substrates:	Ceramics, Plastic
PartType:	Part
Contaminants:	Dirt, Films
Cleaning Methods:	Manual Wipe
Analytical Methods:	Visual
Purpose:	To compare client supplied cleaner to another general purpose floor cleaner following two weeks of cleaning.
Experimental Procedure:	One ounce of each cleaner was used per gallon of water. The dilution water was cold out of the tap. A Rubbermaid general use-wring mop was used for cleaning. Separate mop heads were used for each cleaner on each floor surface. There was a total of 6 mop heads for the experiment. Pictures were taken of the solutions before and after cleaning. In addition, the floor surface being cleaned was photographed before and after cleaning. Each surface was mopped with solution for a minute, then wrung out in the solution and the floor was cleaned for another minute. There was no rinsing, and the surface was allowed to air dry. Observations were made about foaming, odor, solution color before and after cleaning, mop soiling and floor surface cleanliness.
Results:	Both products performed about the same, taking some dirt off all the floor surfaces. The RCM product foamed and had odor. The OrTec product didn't.

Lab Floor – resin coating		
Cleaner	Observation	
OrTEC Cleaner	Before	After
Solution	Clear	Dark grey with solid bits of dirt
Odor	None	None
Foam	None	None
Mop head	Blue, new	Visible dirt on spot used to clean floor
Floor	Dirty, spots of ink,	Not much cleaning seen. Most of dirt on floor is
	various soils	ink and other tough soils
RCM Tribase	Before	After
Solution	Clear	grey with solid bits of dirt
Odor	Faint, citrus like smell	Same
Foam	Some on top	More after dunked and rung mop
Mop head	Blue, new	Visible dirt on spot used to clean floor
Floor (Lab)	Dirty, spots of ink,	Not much cleaning seen. Most of dirt on floor is
	various soils.	ink and other tough soils

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Bathroom Floor – ceramic tiles		
Cleaner	Observation	
OrTEC Cleaner	Before	After
Solution	Clear	Slightly dirty
Odor	None	None
Foam	None	None
Mop head	Blue, new	Visible dirt on spot used to clean floor
Floor	Floor generally dingy	No difference seen visually.
	and grout dirty	Particles & hair picked up & seen in solution,
		which beads on floor. Grout still dirty
RCM Tribase	Before	After
Solution	Clear	Slightly dirty
Odor	Faint, citrus like smell	Same
Foam	Some on top	More after dunked and rung mop
Mop head	Blue, new	Visible dirt on spot used to clean floor
	Floor generally dingy	Not much difference. Particles and hair picked up
	and grout dirty	and seen in solution. Grout still dirty.
Hallway floors – Vinyl tiles		
Cleaner	Observation	
OrTEC Cleaner	Before	After
Solution	Clear	Slightly dirty
Odor	None	None
Foam	None	None
Mop head	Blue, new	No visible dirt on the mop head.
		Not much on floor to start
Floor	Some spots on floor	Cleaner. Solution beads on floor.
RCM Tribase	Before	After
Solution	Clear	Slightly dirty
Odor	Faint, citrus like smell	Same
Foam	Some on top	More after dunked and rung mop
Mop head	Blue, new	No visible dirt on the mop head.
		Not much on floor to start
Floor		

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	Some spots on floor.	Cleaner, less spots.

Summary:

Substrates:	Ceramics, Plastic
Contaminants:	Dirt, Films

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Ortec Ltd Co	Eco Clean	0.78	0.00	☑	
Spartan Chemical Company	Tribase Multipurpose Cleaner	0.78	0.00	☑	

Conclusion:

Over the three weeks of testing the cleaners have removed surface dirt at best. Neither is removing the hard dirt on the lab floor and the grout in the bathroom is not becoming any cleaner. A fourth week of testing may be done if necessary, but it is not believed to show any significant changes from the previous three weeks. Standardized lab testing is recommended in order to show a cleaning efficiency comparison between the Ortec product and some industry standards.