

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007  
DateRun: 06/28/2007  
Experimenters: Andrea Cheeseman  
ClientType: General  
ProjectNumber: Project #2  
Substrates: Plastic  
PartType: Coupon  
Contaminants: Waxes  
Cleaning Methods: Mechanical Agitation  
Analytical Methods: Visual

Purpose: To evaluate second set of effectively screened alternative floor strippers.

Experimental Procedure: The effective products from the second set of screened products were tested at full strength and room temperature. Vinyl tile coupons (3"x4") were coated with the Johnson Wax Show Place floor coating using a hand held swab. The coating was allowed to dry for an hour. After completely dry, additional coats were applied. A total of four coats were used. After all coats were applied, pictures were taken of the coupons using regular lighting and under black light.

Each solution was applied to three coupons and allowed to soak for 10 minutes. At the end of the soaking, the coupons were wiped to remove excess floor stripping solution. Each coupon was then cleaned using a scrub pad supplied by the client. Cleaning was performed at approximately 175 rpms. After cleaned pictures were again taken using both regular and black light conditions. Each set of three coupons were then compared according to the amount of removal to the other products tested.

Results:

Product	Observation
Soy-Strip	Removed almost all wax, could be scrubbed for >5 min to remove all wax. Looks "dirty".
Emerge	Some wax removed. Looks "dirty" and gummy.
Soy-Gel	Removed almost all wax, the rest could be peeled off.
Soy Safe Graffiti Remover	Soy odor, sticky, gummy, most wax removed
Household Paint Stripper	Strong odor, all wax removed
Green Solutions(100)	Sticky, gummy, glue-like, did not remove wax
Green Solutions(9.2)	Some wax removed, wax softened and could be scraped off
Cycle-Strip	Did not remove wax, wax softened and could be scraped off
Citrus Burst 7	Did not remove wax
D-Limonene	Sticky, "dirty" look after scrubbing, did not remove wax
Ez-Solv	Did not remove wax
SC 1000	Sticky, "dirty" look after scrubbing, did not remove wax
Citra Safe	"Watery", very little wax removed
Inproclean 4000 T	Sticky, did not remove wax
SoySolv	Some wax removed
Soy Cleaner 180 D	Did not remove wax
3D Degreaser	Sticky, did not remove wax

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Soy Cream Cleaner	Did not remove wax
Citrus Purre Remover	Some wax removed, could be manually peeled off

Summary:

<b>Substrates:</b>	Plastic				
<b>Contaminants:</b>	Waxes				
<b>Company Name:</b>	<b>Product Name:</b>	<b>Conc.:</b>	<b>Efficiency:</b>	<b>Effective:</b>	<b>Observations:</b>
Franmar Chemical	Soy Strip Paint Stripper	100		<input checked="" type="checkbox"/>	
Franmar Chemical	Emerge super infusion surfactant (one gallon NVC)	100		<input type="checkbox"/>	
Franmar Chemical	Soy Gel Paint Stripper	100		<input checked="" type="checkbox"/>	
SoySafe	Graffiti Remover	100		<input checked="" type="checkbox"/>	
Vertec BioSolvents	Household Paint Stripper	100		<input checked="" type="checkbox"/>	
Spartan Chemical Company	Green Solutions Floor Stripper	100		<input checked="" type="checkbox"/>	
Spartan Chemical Company	Green Solutions Floor Stripper	9.2		<input checked="" type="checkbox"/>	
The Clean Environment Co	C-8 Cycle Strip	74		<input checked="" type="checkbox"/>	
Florida Chemical Company	Citrus Burst 7	100		<input type="checkbox"/>	
Florida Chemical Company	D-Limonene	100		<input type="checkbox"/>	
Gemtek Products	SC EZ Solv Safety Solvent	100		<input type="checkbox"/>	
Gemtek Products	SC 1000 Aqueous Cleaner Concentrate	100		<input type="checkbox"/>	
Inland Technologies Inc	Citrasafe	100		<input type="checkbox"/>	
Oakite Products	Inproclean 4000 T	100		<input type="checkbox"/>	
Soysolv Industrial Products	Soysolv industrial solvent	100		<input checked="" type="checkbox"/>	
Sysco Corporation	Soy Cleaner 180 D	100		<input type="checkbox"/>	
Finger Lakes Chemical	3 D Degreaser	100		<input type="checkbox"/>	
Bi-O-Kleen Industries	Soy Cream Cleaner	100		<input type="checkbox"/>	
Abatement Technologies	Citrus Pure AS850	100		<input type="checkbox"/>	

Conclusion:

The three alternatives had moderate success in removing the wax using the mechanical agitation. Increasing soak time may improve effectiveness.