CLEANING LABORATORY EVALUATION SUMMARY

SCL #:	2007
DateRun:	06/27/2007
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:

Substrates:	Plastic
Contaminants:	Waxes

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Franmar Chemical	Soy Strip Paint Stripper	100	0.00	☑	
Franmar Chemical	Emerge super infusion surfactant (one gallon NVC)	100	0.00	☐	
Franmar Chemical	Soy Gel Paint Stripper	100	0.00	☑	
SoySafe	Graffiti Remover	100	0.00	☑	
Vertec BioSolvents	Household Paint Stripper	100	0.00	☑	
Spartan Chemical Company	Green Solutions Floor Stripper	100	0.00	☑	
Spartan Chemical Company	Green Solutions Floor Stripper	9.2	0.00	☑	
The Clean Environment Co	C-8 Cycle Strip	74	0.00	☑	
Florida Chemical Company	Citrus Burst 7	100	0.00	☐	
Florida Chemical Company	D-Limonene	100	0.00	☐	
Gemtek Products	SC EZ Solv Safety Solvent	100	0.00	☐	
Gemtek Products	SC 1000 Aqueous Cleaner Concentrate	100	0.00	☐	
Inland Technologies Inc	Citrasafe	100	0.00	☐	
Oakite Products	Inproclean 4000 T	100	0.00	☐	
Soysolv Industrial Products	Soysolv industrial solvent	100	0.00	☑	
Sysco Corporation	Soy Cleaner 180 D	100	0.00	☐	
Finger Lakes Chemical	3 D Degreaser	100	0.00	☐	
Bi-O-Kleen Industries	Soy Cream Cleaner	100	0.00	☐	
Abatement Technologies	Citrus Pure AS850	100	0.00	☐	

Conclusion:

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