CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2005

DateRun: 01/19/2005

Experimenters: Jason Marshall, Ephraim Massawe

ClientType: General

ProjectNumber: Project #1

Substrates: Other

PartType: Coupon

Contaminants: Waxes

Cleaning Methods: Immersion/Soak

Analytical Methods: Visual

Purpose: To identify additional floor strippers using a preliminary screening method

Experimental Procedure: Six biobased cleaners were selected from the lab's inventory of biobased alternatives. A seventh non-biobased "green" floor stripper was also included in the screening. An approximate 1 inch square peace of cured coating (4 days) was placed into a glass Petri dish. Each solvent was applied to the coating using a hand held plastic swab and allowed to soak for 10 minutes. Observations were made throughout the ten minute soaking time. At the end of the soaking, each cleaning solution was ranked by two lab personnel to determine which products worked the best. Ranking were based on visually observation for opacity and coating stiffness as compared to an untreated cured sample.

Results: All seven products appeared to have some effect on the cured coating. The non-biobased "green" floor stripper was ranked as having the most success by both staff members. Observations and rankings are listed in the table below.

Cleaning Product	Observations	Rank 1	Rank 2
SolSafe 245	Soft, more transparent than translucent	5	2
Corn Solv	Some softness, translucent	6	6
Soy Solv II Plus	Soft, more transparent than translucent	3	3
Soy Solv	Not soft, mostly opaque	7	7
DBE 5	Very soft, translucent	2	4
DBE 6	Soft, translucent	4	5
Envirostar Green Floor Stripper	Initially became soft, then total dissolved into white solution	1	1

Summary:

Substrates:	Other
Contaminants:	Waxes

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Bio Chem Systems	Solsafe 245	100	0.00	☑	Rank ~ 3.5
Soysolv Industrial Products	Cornsolv industrial solvent	100	0.00	☑	Rank 6
Soysolv Industrial Products	Soysolv II sovent Plus	100	0.00	☑	Rank 3
Soysolv Industrial Products	Soysolv industrial solvent	100	0.00	☑	Rank 7
Invista S.a.r.l	Flexisolv DBE 5 ester	100	0.00	☑	Rank ~ 3
Invista S.a.r.l	Flexisolv DBE 6 ester	100	0.00	☑	Rank ~ 4.5
Pioneer Eclipse	Enviro Star Green Glass & Surface Cleaner	100	0.00	☑	Rank 1

Conclusion: All seven products will be tested unsung manual wiping in the Gardner Abrasion Tester under conditions similar to the previous trials.