

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:

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|-----------------------------|---|---------------|--------------------|-------------------------------------|----------------------|
| Substrates: | Plastic | | | | |
| Contaminants: | Waxes | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| 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.