

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007
DateRun: 09/28/2007
Experimenters: Jason Marshall, Heidi Wilcox, Shweta Bansal
ClientType: Wire & Cable Mfr
ProjectNumber: Project #1
Substrates: Liquid
PartType: Coupon
Contaminants: Paints, Resins/Rosins
Cleaning Methods: Immersion/Soak
Analytical Methods: Visual

Purpose: To screen potential cleaning products for removing paint/resin from steel parts

Experimental Procedure: Twenty-one potential products were identified using the lab's on-line database, www.cleansolutions.org, based on supplied information. A 5 milliliter full strength of each product was placed in a glass vial. A small piece of cured paint taken from a supplied part was placed in the vial and capped. The paint was allowed to sit in the solution to determine what effect the cleaning products would have. Observations were made at 10, 20, 30, 45 and 60 minute intervals. Any signs of interaction between paint and cleaner were recorded.

Results:

| Product | Initial Solution Appearance | 10 min | 20 min | 30 min | 45 min | 60 min |
|-----------------------------|-----------------------------|--------------------------------|------------------------------|----------------------|----------------------|--------------------------|
| Bio T Max | Clear slight yellow | No change | NC | NC | NC | NC |
| Solsafe 245 | Clear | No change | NC | NC | NC | NC |
| Citrus Burst 7 | Amber | No change | NC | NC | NC | NC |
| Safe Strip | Clear | No change | NC | NC | NC | NC |
| DBE 6 | Clear | No change | NC | NC | NC | NC |
| SC Aircraft & Metal Cleaner | Clear slight yellow | No change | NC | NC | NC | NC |
| Micro 90 (10%) | Clear | Fizzing | Cloudy, more fizzing | Cloudy, some fizzing | Cloudy, some fizzing | Cloudy, some fizzing |
| Micro 90 (20%) | Clear | Fizzing | Cloudy, some fizzing | Cloudy, some fizzing | Cloudy, some fizzing | Cloudy, little fizzing |
| Ionox HC2 | Clear slight yellow | No change | NC | NC | NC | NC |
| Inproclean 3800 | Clear | Turned brown, lots of fizzing | Darker and still fizzing | Very dark | Even darker - opaque | Same |
| VPW SC 1000 | Clear | No change | NC | NC | NC | NC |
| Soysolv II | Clear slight yellow | No change | NC | NC | NC | NC |
| Envirosolve | Clear | No change | NC | NC | NC | NC |
| Inproclean 4000T | Amber | No change | NC | NC | NC | NC |
| D Greeze 500 LO | Yellow | No change | NC | NC | NC | NC |
| Super Stripper | Purple | Fizzing from beginning, darker | Slow fizzing slightly darker | Slow fizzing | Slow fizzing | No fizzing, paint softer |
| Enviro Star Green | Clear | No change | NC | NC | NC | NC |

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|---------------------------|---------------------|--|------------------------------------|------------------------|----------------|--------------------------|
| Cycle Strip | Clear slight yellow | Started to dissolve paint, very aggressive fizzing | Foaming and fizzing, turning brown | Still dissolving paint | Same | No fizzing |
| EnviroCare Floor Stripper | Clear | Some dissolving | Darker and some fizzing | Some fizzing | Little fizzing | No fizzing |
| Tar Remover | Yellow | No change | NC | NC | NC | NC |
| Green Solutions | Clear | Started to dissolve paint | Moderate fizzing | Some fizzing | Little fizzing | No fizzing, paint softer |

Summary:

| Substrates: | Liquid | | | | |
|------------------------------------|---|--------|-------------|-------------------------------------|---------------|
| Contaminants: | Paints, Resins/Rosins | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: |
| Bio Chem Systems | Bio T Max | 100 | | <input type="checkbox"/> | |
| Bio Chem Systems | Solsafe 245 | 100 | | <input type="checkbox"/> | |
| Florida Chemical Company | Citrus Burst 7 | 100 | | <input type="checkbox"/> | |
| EcoLink | Safe Strip | 100 | | <input type="checkbox"/> | |
| Invista S.a.r.l | Flexisolv DBE 6 ester | 100 | | <input type="checkbox"/> | |
| Gemtek Products | SC Aircraft & Metal Cleaner Super Concentrate | 100 | | <input type="checkbox"/> | |
| International Products Corporation | Micro 90 Conc. | 10 | | <input checked="" type="checkbox"/> | |
| International Products Corporation | Micro 90 Conc. | 20 | | <input checked="" type="checkbox"/> | |
| Kyzen Corporation | Ionox HC 2 | 100 | | <input type="checkbox"/> | |
| Oakite Products | Inproclean 3800 | 100 | | <input checked="" type="checkbox"/> | |
| Orison Marketing | VPW SC 1000 | 100 | | <input type="checkbox"/> | |
| Soysolv Industrial Products | Soysolv II solvent | 100 | | <input type="checkbox"/> | |
| 21st Century Composites | Envirosolve | 100 | | <input type="checkbox"/> | |
| Oakite Products | Inproclean 4000 T | 100 | | <input type="checkbox"/> | |
| Transene Company, Inc. | D Greeze 500 LO | 100 | | <input type="checkbox"/> | |
| Bi-O-Kleen Industries | Super Stripper - Floor Wax Remover | 100 | | <input checked="" type="checkbox"/> | |
| Pioneer Eclipse | Enviro Star Green Glass & Surface Cleaner | 100 | | <input type="checkbox"/> | |
| The Clean Environment Co | C-8 Cycle Strip | 100 | | <input checked="" type="checkbox"/> | |
| Rochester Midland Corporation | EnviroCare Floor Stripper | 100 | | <input checked="" type="checkbox"/> | |
| United Laboratories International | Tar Remover | 100 | | <input type="checkbox"/> | |
| Spartan Chemical Company | Green Solutions Floor Stripper | 100 | | <input checked="" type="checkbox"/> | |

Conclusion:

The seven products found to have some effect on the paint will be evaluated further.