

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2007  
 DateRun: 08/20/2007  
 Experimenters: Jason Marshall, Shweta Bansal, Andrea Cheeseman  
 ClientType: General  
 ProjectNumber: Project #2  
 Substrates: Plastic  
 PartType: Coupon  
 Contaminants: Waxes  
 Cleaning Methods: Mechanical Agitation  
 Analytical Methods: Visual  
 Purpose: To evaluate full strength products at 10 minutes.

Experimental Procedure: The products from the previous trials were retested at 100% dilution and 10 minutes of stripping. Full vinyl tile coupons (12"x12") were coated with the Johnson Wax Show Place floor coating using a paint brush. The coating was allowed to dry for an hour. After completely dry, additional coats were applied. A total of four coats were used.

Initially, each solution was applied to one tile and allowed to soak for 10 minutes. At the end of the soaking, the tile was stripped manually using sections of the scrubbing pad. During scrubbing, hot water was added to the tile and stripping solvent, simulating the procedure witnessed during an on-site visit to the client's facility. Observations were recorded on the effectiveness of the strippers. In addition, three lab personnel independently ranked the strippers for performance. An average of the three assessments were made.

Results: 100% Solvent and 10 minutes

| Manufacturer             | Product             | Ranking                                   |    |    |             |
|--------------------------|---------------------|---|----|----|-------------|
|                          |                     | 1= Most Efficient;<br>19= Least Efficient |    |    |             |
|                          | Employee            | 1   | 2  | 3  | Overall Ave |
| Abatement Technologies   | Citrus Pure Remover | 16  | 9  | 14 | 13          |
| Bio-Kleen                | Super Stripper D1:3 | 7   | 5  | 7  | 6.3         |
| Bio-Kleen                | Super Stripper D1:5 | 7   | 5  | 7  | 6.3         |
| Bi-O-Kleen               | SL-100              | 14  | 17 | 13 | 14.7        |
| The Clean Environment Co | Cycle-Strip         | 13  | 12 | 15 | 13.3        |
| Ecolink                  | Safe-Strip          | 2   | 6  | 5  | 4.3         |
| EnvirOx, LLC             | Grout-Safe          | 18  | 15 | 18 | 17          |
| Finger Lakes Chemicals   | Graffiti Remover    | 3   | 7  | 3  | 4.3         |
| Finger Lakes Chemicals   | Resineater          | 8   | 8  | 8  | 8           |
| Franmar                  | Soy-Gel             | 1   | 1  | 1  | 1           |
| Franmar                  | Soy-Strip           | 9   | 18 | 9  | 12          |
| Gemtek                   | SC Maxi Solve       | 4   | 3  | 4  | 3.7         |
| Green Products, LLC      | Amaizeing           | 5   | 11 | 6  | 7.3         |
| Inland Technologies      | Citra-Safe          | 17  | 13 | 12 | 14          |
| Inland Technologies      | EP 921              | 10  | 14 | 17 | 13.7        |

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|                       |                          |    |    |    |      |
|-----------------------|--------------------------|----|----|----|------|
| SoySolv Ind. Products | SoySolv                  | 15 | 4  | 16 | 11.7 |
| Spartan               | Graffiti Remover SAC RTU | 12 | 16 | 11 | 13   |
| Spartan               | Green Solutions          | 6  | 2  | 2  | 3.3  |
| Vertec                | Ink Zapper               | 11 | 10 | 10 | 10.3 |

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> |
| Abatement Technologies      | Citrus Pure AS850                       | 100           |                    | <input type="checkbox"/>            | Rank = 13            |
| Bi-O-Kleen Industries       | Super Stripper - Floor Wax Remover      | 33            |                    | <input checked="" type="checkbox"/> | Rank = 6.3           |
| Bi-O-Kleen Industries       | Super Stripper - Floor Wax Remover      | 20            |                    | <input checked="" type="checkbox"/> | Rank = 6.3           |
| Bi-O-Kleen Industries       | Soy Lube- SL 100                        | 100           |                    | <input checked="" type="checkbox"/> | Rank = 14.7          |
| The Clean Environment Co    | C-8 Cycle Strip                         | 100           |                    | <input type="checkbox"/>            | Rank = 13.3          |
| EcoLink                     | Safe Strip                              | 100           |                    | <input checked="" type="checkbox"/> | Rank = 4.3           |
| Envirox LLC                 | Grout Safe                              | 100           |                    | <input type="checkbox"/>            | Rank = 17            |
| Twin Rivers Technologies    | Graffiti Remover                        | 100           |                    | <input checked="" type="checkbox"/> | Rank = 4.3           |
| Finger Lakes Chemical       | FLSC-12 Resineater Sample               | 100           |                    | <input checked="" type="checkbox"/> | Rank = 8             |
| Franmar Chemical            | Soy Gel Paint Stripper                  | 100           |                    | <input checked="" type="checkbox"/> | Rank = 1             |
| Franmar Chemical            | Soy Strip Paint Stripper                | 100           |                    | <input type="checkbox"/>            | Rank = 12            |
| Gemtek Products             | Safe Care (SC) Maxi Solv                | 100           |                    | <input checked="" type="checkbox"/> | Rank = 3.7           |
| Green Products              | aMAIZEing biobased solvent and stripper | 100           |                    | <input checked="" type="checkbox"/> | Rank = 7.3           |
| Inland Technologies Inc     | Citrasafe                               | 100           |                    | <input type="checkbox"/>            | Rank = 14            |
| Inland Technologies Inc     | EP 921                                  | 100           |                    | <input type="checkbox"/>            | Rank = 13.7          |
| SoySolv Industrial Products | SoySolv industrial solvent              | 100           |                    | <input type="checkbox"/>            | Rank = 11.7          |
| Spartan Chemical Company    | Graffiti Remover SAC                    | 100           |                    | <input type="checkbox"/>            | Rank = 13            |
| Spartan Chemical Company    | Green Solutions Floor Stripper          | 100           |                    | <input checked="" type="checkbox"/> | Rank = 3.3           |
| Vertec BioSolvents          | Ink Zapper                              | 100           |                    | <input checked="" type="checkbox"/> | Rank = 10.3          |

Conclusion:

The products will next be assessed for odor levels.