

CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2021

DateRun: 06/07/2021

Experimenters: Ross Goding, Edward Judge

ClientType: Lab

ProjectNumber: Project #4

Substrates: Ceramics, Plastic, Painted metal

PartType: Coupon

Contaminants: Hucker's Soil

Cleaning Methods: Manual Wipe

Analytical Methods: Gravimetric, Visual

Purpose: To test the efficiency of Clorox Bathroom spray on the removal of Huckers soil from ceramic, plastic, and painted steel substrates.

Experimental Procedure: Initial weights of each substrate (ceramic, plastic, painted metal) were taken and subsequently soiled with 0.5 grams of Huckers Soil. The Huckers soil was allowed to dry for 2 hours before dirty weights of the coupons were taken. Each substrate was manually wiped using the SLW machine with the Clorox Bathroom cleaner. 2 sprays were added to each wipe and coupon. The SLW unit was used for 20 cycles. Final weights were taken an hour after coupons were cleaned.

| Results: | Cleaner | Substrate | Coupon | Initial wt. of contamination | Final wt. of contamination | % Removal | Average % removal | Product removal |
|----------|---------|-----------|--------|------------------------------|----------------------------|-----------|-------------------|-----------------|
| 1 | A | 138 | 0.1073 | 0.0098 | 90.87 | 80.69 | 82.83 | |
| | | 12 | 0.0971 | 0.0121 | 87.54 | | | |
| | | 8 | 0.1241 | 0.0451 | 63.66 | | | |
| | B | 210 | 0.1966 | 0.0059 | 97.00 | 85.35 | | |
| | | 7 | 0.2842 | 0.0156 | 94.51 | | | |
| | | 14 | 0.1816 | 0.0644 | 64.54 | | | |
| | C | 4 | 0.1373 | 0.0227 | 83.47 | 82.45 | | |
| | | 24 | 0.1247 | 0.0039 | 96.87 | | | |
| | | 14 | 0.1219 | 0.0402 | 67.02 | | | |

| | | | | | | |
|----------------------|-------------------------------|---|--------------------|-------------------------------------|--|--|
| Summary: | | Substrates: Ceramics, Plastic, Painted metal | | | | |
| | | Contaminants: Hucker's Soil | | | | |
| Company Name: | Product Name: | Conc.: | Efficiency: | Effective: | Observations: | |
| Clorox Company | Disinfecting Bathroom Cleaner | 100% | 82.83 | <input checked="" type="checkbox"/> | Clorox Bathroom Cleaner was effective in the removal of Hucker's Soil from various substrates. | |

Conclusion: Overall, this product cleaned the Huckers soil, bathroom soil, and glass soil with an overall removal percentage of 83%. It removed soil from the plastic substrate the best with an 85% removal rating. The product itself passes the level in which a product needs to perform as a cleaner which is above an 80% removal rating.