

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2009  
 DateRun: 04/14/2009  
 Experimenters: Junhee Cho  
 ClientType: Lab  
 ProjectNumber: Project #1  
 Substrates: Ceramics  
 PartType: Part  
 Contaminants: Adhesive  
 Cleaning Methods: Manual Wipe  
 Analytical Methods: Visual  
 Purpose: DIY test to remove the price sticker

Experimental Procedure: Basic cleaning performance testing was conducted using ASTM G122 as the bases for cleaning. Cleaning recipes were applied to wiping device (paper towel, cloth towel, sponge) and then wiped on the ceramic tableware to remove the price stickers. Cleaning was evaluated based on visual observations.

Results:

| Cleaner        | Time (min) | Observations            | Outcome  |
|----------------|------------|-------------------------|----------|
| Water cold     | 3          | Rub with paper towel    | Not good |
| Water warm     | 2.5        | Rub with paper towel    | Not good |
| Water warm     | 1.6        | Rug with sponge         | Good     |
| Peanut butter  | 6          | Rub with paper towel    | Not good |
| Peanut butter  | >6         | Rub with cloth          | Not good |
| DIY Formula 7  | 1.25       | Rub with paper towel    | Good     |
| DIY Formula 7  | 1.5        | Rub with paper towel    | Good     |
| DIY Formula 11 | 2.33       | Rub with paper towel    | Okay     |
| Fantastico AP  | 1.83       | Rub with paper towel    | Okay     |
| Hand Soap      | 4.78       | Rub with paper towel    | Not good |
| Finger         | 4.17       | Scratch with fingernail | Okay     |

Summary:

| <b>Substrates:</b>     | Ceramics                   |        |             |                                     |               |
|------------------------|----------------------------|--------|-------------|-------------------------------------|---------------|
| <b>Contaminants:</b>   | Adhesive                   |        |             |                                     |               |
| Company Name:          | Product Name:              | Conc.: | Efficiency: | Effective:                          | Observations: |
| No Specific Vendor     | Home Formulation 7         | 100    |             | <input checked="" type="checkbox"/> |               |
| Water                  | Water                      | 100    |             | <input type="checkbox"/>            |               |
| Water                  | Water                      | 100    |             | <input checked="" type="checkbox"/> | with sponge   |
| No Specific Vendor     | Home Formulation 11        | 100    |             | <input checked="" type="checkbox"/> |               |
| No Specific Vendor     | Home Formulation 17        | 100    |             | <input type="checkbox"/>            |               |
| Brazilian Womens Group | Fantastico Multi-Usa       | 100    |             | <input type="checkbox"/>            |               |
| Delta Brand Inc        | Lucky Super Soft Hand Soap | 100    |             | <input type="checkbox"/>            |               |

Conclusion: Two of the DIY formulations, 7 and 11, were effective at removing the adhesive sticker along with warm water when used with a sponge. Two products, DIY formulation 17 and Fantastico, had some success. Peanut butter was not effective along with hand soap and cold water.