

# CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2014

DateRun: 06/16/2014

Experimenters: Ashwitha Rajagopal

ClientType: Cleaner Manufacturer

ProjectNumber: Project #3

Substrates: Vinyl Composite Tiles

PartType: Coupon

Contaminants: Coatings

Cleaning Methods: Mechanical Agitation

Analytical Methods: Visual

Purpose: Determine the relative rate of contaminant ease removal that has been aged on the surface with a cleaning solution.

Experimental Procedure: This test method, ASTM D 1792, stimulates a uniform mechanical standard to properly utilize the solution. It does not standardized how much percentage of soil will be removed.

Four VCT tiles were cleaned and applied with foil for again under 37 degrees Celsius for 3 days. The VCT tiles were cleaned using the Abrasion Tester. A scrubber was emerged into Meteor Floor Strip cleaner diluted to 12.5% with cold tap water previous to cleaning of the VCT tile for at least 1 minute. On the manual wipe, a constant pressure was applied on top of the silver cart as the machine is running. The first set of cycle on each VCT tile coupon is set to 1 cycle with the pad on the apparatus for manual wipe. After 1 cycle; each tile was manually cleaned with 50 increment wipes. After each 50 increments, two visual analysis were done on the tile. 50 cycles are performed until the tiles reach a 100% cleanliness in the visuals.

Qualitative rating according to the following terminology:  
Removal Ease Number of Oscillations Required for Complete Removal  
Excellent <50  
Good >50 but <100  
Fair >100 but <200  
Poor >200

Results: After 50 cycles, the aged coating was nearly all removed. After the additional 50 cycles (100 total) the removability of the soil on the tiles was good.

Soil Removal Table Visual Analysis:

| Visual Analysis | VCT Tile 1 |      | Tile 2 |      | Tile 3 |      | VCT Tile 4 |      |
|-----------------|------------|------|--------|------|--------|------|------------|------|
| 50 cycles       | 93%        | 95%  | 94%    | 96%  | 99%    | 98%  | 90%        | 90%  |
| 100 cycles      | 100%       | 100% | 100%   | 100% | 100%   | 100% | 100%       | 100% |

Summary:

|                                |                              |  |               |                    |                                     |                      |
|--------------------------------|------------------------------|--|---------------|--------------------|-------------------------------------|----------------------|
| <b>Substrates:</b>             | Vinyl Composite Tiles        |  |               |                    |                                     |                      |
| <b>Contaminants:</b>           | Coatings                     |  |               |                    |                                     |                      |
| <b>Company Name:</b>           | <b>Product Name:</b>         |  | <b>Conc.:</b> | <b>Efficiency:</b> | <b>Effective:</b>                   | <b>Observations:</b> |
| New Dawn Manufacturing Company | Daycon Meteor Floor Stripper |  | 12.5          |                    | <input checked="" type="checkbox"/> | 100 cycles           |

Conclusion: Meteor Floor Stripping 12.5% dilution is effective (Good) in removing finish off of aged VCT tile.