CLEANING LABORATORY EVALUATION SUMMARY

SCL #: 2000

DateRun: 05/18/2000

Experimenters: Jason Marshall, John Brunelle

ClientType: Consultant

ProjectNumber: Project #1

Substrates: Ceramics, Glass/Quartz

PartType: Coupon

Contaminants: Dirt, Fingerprints, Films, Soaps

Cleaning Methods: Manual Wipe

Analytical Methods: Visual

Purpose: To compare current tub & tile cleaners (Ecolab) with proposed new cleaners (Rochester Midland).

Experimental Procedure: The new products to be compared were diluted to 4 oz cleaner in one gallon of water (approximately 3% by volume) for the Rochester Midland Washroom Fixture Cleaner, 8 oz cleaner in one gallon (approx. 6.25%) for the RM Tough Job, and 4 oz in one gallon (6.25%) for the RM glass cleaner, using DI water. The solution was put in a one quart plastic spray bottle, similar to the supplied for the current cleaning solution.

The contaminant solution was applied to the appropriate surface material, ceramic tub tiles, marble, or glass/mirror. The tiles were allowed to sit for five minutes before cleaning took place. Observations were made by SCL Staff member to determine what the baseline level of contamination looked like. After recording the sets of observations separately, the cleaning process was started. Cleaning involved spraying the tile with one spray, then wiped until clean with cloth rags. The spraying and wiping was performed by the same individual for all tiles and cleaners to ensure consistent cleaning. During the wiping, observations were made as to how easy the cleaning felt. After all tiles were cleaned, final clean observations were made by the same staff member. One tile was cleaned for each solution to be evaluated. The cleaning products were ranked according to all observation made during the entire trial.

SUBSTRATE MATERIAL: Marble Tile, Ceramic Tiles, Glass/Mirror
CONTAMINANTS: L-Gilchrist & Soames Skin Care soap with aloe vera(bar), L-Gilchrist & Soames Soap (bar), Colgate Fluoride Toothpaste, FRIZZ-EASE hair spray, Colgate foam shaving cream.
CONTAMINATING PROCESS USED: Formulated mixture of water, L-Bar soap, toothpaste, and foam shaving cream. The mix was applied using a swab. Hair spray was then applied to surface and allowed to dry.

Results:

Company	Product	Surface	Evaluation
Ecolab	Oasis 499 Germicidal	Ceramic Tile	Easily cleaned, little streaking, surface shiny
Ecolab	Oasis 266 All Purpose	Ceramic Tile	Moderate effort, some streaking, surface shiny
Ecolab	Oasis Tub & Tile	Ceramic Tile	Easily cleaned, little streaking, surface shiny
Rochester Midland	EnviroCare Washroom Fixture	Ceramic Tile	Easily cleaned, some streaking, surface shiny
Rochester Midland	EnviroCare Tough Job	Ceramic Tile	Easily cleaned, little streaking, surface shiny
DI Water	DI Water	Ceramic Tile	Moderate effort, some streaking, surface shiny
Ecolab	Oasis 499 Germicidal	Marble	Easily cleaned, little streaking, surface shiny
Ecolab	Oasis 266 All Purpose	Marble	Moderate effort, some streaking, surface shiny
Ecolab	Oasis Tub & Tile	Marble	Difficult to clean, surface streaky and spotted
Rochester Midland	EnviroCare Washroom Fixture	Marble	Easily cleaned, little streaking, surface shiny
Rochester Midland	EnviroCare Tough Job	Marble	Easily cleaned, little streaking, surface shiny
DI Water	DI Water	Marble	Moderate effort, some streaking, surface shiny
Ecolab	Oasis 255 SF Glass	Glass/ Mirror	Easily cleaned, little or no streaking
Rochester Midland	Envirocare Glass Cleaner	Glass/ Mirror	Moderate effort, leaves visible streaks

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Rochester Midland	EnviroCare Washroom Fixture	Glass/ Mirror	Moderate effort, little streaking

Summary:

Substrates:	Ceramics, Glass/Quartz
Contaminants:	Dirt, Fingerprints, Films, Soaps

Company Name:	Product Name:	Conc.:	Efficiency:	Effective:	Observations:
Rochester Midland Corporation	Washroom Cleaner	3	0.00	☑	marble and ceramic
Rochester Midland Corporation	EnviroCare Tough Job	6	0.00	☑	marble and ceramic
Rochester Midland Corporation	EnviroCare Glass Cleaner	6	0.00	☐	glass
EcoLab	Oasis 499	100	0.00	☐	marble and ceramic
EcoLab	Oasis All Purpose	100	0.00	☐	marble and ceramic
EcoLab	Oasis 255 Glass Cleaner	100	0.00	☑	glass

Conclusion:

For the marble and ceramic tile surfaces, the RM products were found to be at least as effective as the Ecolab cleaners. For the glass/mirror surface, the Ecolab cleaner out performed the RM cleaners.