

# Carnegie

## MAINTENANCE MANUAL FOR WALLCOVERINGS AND PANELS

**TECHNICAL SERVICES DEPARTMENT**

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## Maintenance & Cleaning - General Information

Proper maintenance of wallcovering, panel and upholstered wall fabrics permits less frequent cleaning. Maintenance is routine, on-going care which reduces the build-up of soil on the material's surface and involves the treatment of spots and stains.

Maintenance of wallcovering should involve regular and thorough vacuuming of fabric and vinyl wallcovering with the proper upholstery attachment to remove airborne dust and lint. Spots and stains should be treated promptly.

Regular and thorough maintenance of panel and wall upholstery involves vacuuming with proper upholstery attachment or light brushing to remove airborne dust and lint. Avoid excessive brushing or rubbing to prevent fuzzing of the fabric surface. In the case of 100% polyester or high content (60%+) polyester fabrics, soils and stains will tend to remain on the fiber surface because of the very low absorption properties of polyester and, therefore, are usually removed without need of vigorous treatment.

Cleaning is the necessary periodic removal of accumulated grime with the purpose of achieving the original appearance, as closely as possible. Vinyl wallcovering should be cleaned with a cloth wet with a mild soap or detergent and water. Dry the wallcovering with a towel. **NEVER** use steel wool or powdered abrasive cleaners as they may damage the surface.

Where possible we strongly encourage the use of environmentally friendly cleaners

## Cleaning Codes

**NOTE: SPECIAL FINISHES LIKE FLAME RETARDANT TREATMENTS, PROTECTIVE COATINGS MAY MODIFY A FABRICS CLEANING CODE.**

### **W**

- CLEAN ONLY WITH WATER-BASED SHAMPOO OR FOAM CLEANERS.
- DO NOT OVER SATURATE WITH WATER.

### **S**

- CLEAN ONLY WITH WATER-FREE SOLVENT.
- DO NOT SATURATE WITH SOLVENT.
- DO NOT USE WATER

### **WS**

- CLEAN WITH MILD DETERGENT SHAMPOO, FOAM, OR WATER FREE SOLVENTS.
- DO NOT SATURATE WITH LIQUIDS.

### **X**

- DO NOT CLEAN WITH EITHER WATER OR SOLVENT-BASED CLEANER.
- USE ONLY VACUUMING OR LIGHT BRUSHING.

**PRE-TEST YOUR CLEANING METHOD ON AN INCONSPICUOUS AREA OF THE FABRIC TO DETERMINE IF COLOR BLEEDS, IF THE FABRIC SHRINKS OR SEPARATES FROM THE WALL. IF THERE IS ANY DOUBT, SEEK THE ASSISTANCE OF A PROFESSIONAL CLEANING SERVICE.**

## SPOTS AND STAINS

If a spot, spill or deposition of foreign matter occurs, prompt action must be taken because it may be difficult or, in some cases, impossible to remove if allowed to set. Fluids must be immediately absorbed from the surface. The area of spillage must be confined to prevent penetration into the fibers or adhesives. Solid or semi-solid substances should be broken up with a knife-like object, scraping carefully, and then vacuumed to remove as much of the foreign material as possible before stain removal agents are used.

Stain removal agents, when required, should be pre-tested in an inconspicuous area of the wallcovering or panel. After the agent has been removed and the fabric has dried, the area should be examined for evidence of color change. To test for shrinkage, allow the fabric to set from one to two hours after it has been wet. It may be necessary to try different agents until no change is evident. **If a fabric bleeds or shrinks, seek a professional cleaning service.**

To avoid spreading of the stain and over wetting the fabric, only a small amount of stain removal compound should be applied, preferably by a dampened towel. Work in from the outside edge toward the center of the stain. The agent should be blotted on, not rubbed into the foreign matter and fabric, to avoid damage to the fabric surface. Once the stain has been totally removed, the residue of the cleaning agent must be removed by rinsing the fabric and blotting dry with an absorbent cloth, a paper towel or a sponge.

Water-based stains can be removed from most wallcovering, panel and wall upholstery fabrics using a mild detergent diluted with warm water, using one teaspoon of detergent per cup of water. Oil-based stains can be removed with a solvent-type dry cleaning fluid, such as K2R or Carbona. Fast drying, using a fan or hair dryer set at cool, will hasten drying and help prevent rings.

Large and unusual stains should be treated only by a reputable professional cleaning service.

## **WALLCOVERING STAIN REMOVAL AND CLEANING**

**PRE-TEST ANY CLEANING METHOD RECOMMENDED IN THIS MANUAL ON AN INCONSPICUOUS AREA OF THE FABRIC FIRST TO DETERMINE IF THERE IS ANY DETRIMENTAL AFFECT ON THE FABRIC OR THE ADHESIVE BOND TO THE WALL.**

### **XOREL CLEANING INSTRUCTIONS**

#### **CLEANING CODE: WS**

- **CLEAN WITH MILD DETERGENT SHAMPOO, FOAM, OR DRY CLEANING SOLVENTS.**
- **DO NOT SATURATE WITH LIQUIDS.**

Xorel yarns are non-absorbent; dust and stains cannot penetrate them. Regular maintenance will keep the fabric looking new for many years. Periodic vacuuming will remove dust that may settle between the yarns.

Most stains that dry between the yarns or on the surface can be eliminated by wiping the fabric with a cloth moistened with hot tap water.

Some stains may require additional treatment. These stains can be cleaned with a variety of water or solvent based cleaners. When using solvent based cleaners on paperbacked Xorel fabric, test on a small area first. Residue from these cleaners must be removed with hot water and a clean sponge. After cleaning, towel dry.

Hardened solids can be removed with stiff brush or a sharp-edged instrument without damaging the fabric. However, the brush or sharp instrument should not be used close to seams.

**Stain Removal Guide Xorel (Also applicable to 100% Olefin Wallcoverings):**

In tests conducted at intervals of one hour, one day and seven days, 24 common stains were completely removed by the following procedures

<b>Adhesives</b> <i>(Clear or Clay based)</i>	Wash with hot water. Towel dry.
<b>Beer / Wine</b>	Wash with hot water. Towel dry.
<b>Betadine</b>	Wash with a solution of liquid dish detergent (Ivory®) and water. Then apply bleach. Towel dry.
<b>Blood</b>	Wash with a solution of liquid dish detergent (Ivory®) and ammonia. Towel dry.
<b>Butter</b>	Wash with hot water and apply spray cleaner (Fantastic®). Towel dry
<b>Coffee</b>	Wash with hot water and apply spray cleaner Seventh Generation® Natural All Purpose Cleaner ). Then apply spot remover (Carbona®). Towel dry
<b>Cola</b>	Wash with hot water then apply spot remover (Carbona®). Towel dry
<b>Crayon</b>	Use pencil eraser, then apply wax stripper (Trewar®). Wash with hot water. Towel dry.
<b>Dirt</b>	Wash with hot water. Towel dry.
<b>Gum</b>	Use spot remover (Carbona®), then wash with hot water. Towel dry.
<b>Hair Tonic</b> <i>(Brylcreem®)</i>	Use carpet / upholstery cleaner(Carbona®,Resolve®),then wash with hot water. Towel dry
<b>Hairspray</b> <i>(LaCoupe)</i>	Dab wit soap solution, then rinse with hot water. Towel dry.
<b>Permanent Hair Dye</b> <i>(Clairol Nice'n Easy)</i>	Lightly scrub with bleach. Rinse with water, towel dry.
<b>Ketchup</b>	Wash with hot water. Use spot remover (Carbona®) then bleach. Towel dry.
<b>Lipstick</b>	Use pencil eraser, then apply wax stripper (Trewar®). Wash with hot water. Towel dry.
<b>Liquid Soap</b>	Wash with hot water. Towel dry.
<b>Milk</b>	Wash with hot water. Towel dry

<b>Mustard</b>	Wash with hot water then apply spray cleaner (Seventh Generation® Natural All Purpose Cleaner ). Towel dry.
<b>Nail Polish</b> <i>(Wet n Wild)</i>	Use nail polish remover with Acetone, then rinse with hot water Towel dry
<b>Nail Polish Remover</b> <i>(with or without Acetone)</i>	Rinse with hot water. Towel dry
<b>Newsprint</b>	Wash with hot water. Towel dry
<b>Pen</b> <i>(Ball-point)</i>	Use pencil eraser wash with hot water. Towel dry. Isopropyl Alcohol
<b>Salad Dressing</b>	Wash with hot water. Towel dry.
<b>Shoe Scuffs</b>	Use carpet / upholstery cleaner (Carbona®, Resolve®). Wash with hot water. Towel dry
<b>Tea</b>	Wash with hot water. Towel dry.
<b>Urine</b>	Use carpet / upholstery cleaner (Carbona®, Resolve®), then apply vinegar. Wash with hot water. Towel dry.

## Surface iQ Cleaning Instructions

### CLEANING CODE: W

- **CLEAN ONLY WITH WATER-BASED SHAMPOO OR FOAM UPHOLSTERY CLEANERS.**
- **DO NOT OVER SATURATE WITH WATER.**

As with any commercial grade quality product, proper care and routine maintenance of your wallcovering will safeguard your investment. Care taken will contribute to its original beauty and finish; thereby extending its useful life. Surface IQ Wallcoverings are finished with Aqua-Clear 2.6 protective topcoat for enhanced clean and wash ability.

The following general cleaning instructions should serve as a guide for normal maintenance practices.

### General Cleaning

Ordinary dirt and smudges can be removed by using a mild soap, warm water and soft bristle brush if necessary to remove dirt from the crevices of deeply textured patterns. Clean from the bottom of the wall upward and allow to soak for several minutes. Rinse thoroughly from the top of the wall down using clean water and a clean sponge (change rinse water often). To dry SiQ wallcovering use a soft, lint free cloth or towel. Repeat, if necessary.

### Special Cleaning Conditions

For more difficult stains that are only surface deep, the use of a stronger detergent such as Fantastic, Formula 409 or similar non-abrasive household cleaner. Isopropyl (rubbing) alcohol is accepted for ball point ink pen removal in combination with the use of a soft cloth. **Limit exposure of alcohol to reduce chances of damage.** It is always recommended that a test cleaning be performed in an inconspicuous area before subjecting the surface to any cleaner or solvent.

**Never use abrasive cleansers, sharp objects, or steel wool as they can permanently ruin the surface.** Do not use solvents such as **acetone** as they to can remove and damage the topcoat finish.

**NOTE: NEVER MIX CLEANING AGENTS TOGETHER – VIOLENT REACTIONS CAN OCCUR.**

## **STUDIO WALLCOVERINGS**

Ebb, Flow, Impression, Sandstone, and Pizzazz

### **CLEANING CODE: W**

- **Clean only with water-based solution.**
- **Do not over wet.**
- **Do not use solvent to spot clean.**

### **General Care/Maintenance**

These wallcovering are made with decorative materials, and contains an Easy Care finish for easy maintenance. However, this does not make them impervious to staining, nor does it mean that extremely vigorous scrubbing with an abrasive material will not affect the face finish of the product. For best results, clean soiling immediately as occurs.

### **The following is the recommended maintenance procedure:**

If you plan to self clean then we suggest wiping with a clean, damp, soft cloth. Everyday dirt, dust and smudges should be first wiped with a soft, cloth or damp Kleenex. When performing standard cleaning or attempting to remove stains, it is advised to use a soft, lint-free cloth.

For spot or stain cleaning, the stain should first be blotted damp Kleenex tissue, then rubbed gently and blotted with an absorbent cloth. Residue can be removed with small amounts of a mild soap (such as Ivory) and water. Do not saturate. For best results, clean soiling immediately as occurs.

Do not use abrasive cleaners or brushes, as these may damage the surface of the products.

## **LUXE WOVEN WALLCOVERINGS**

Palazzo, Ponte, Windchill, Forecast, etc

### **CLEANING CODE: S:**

- **CLEAN ONLY WITH DRY CLEANING SOLVENT.**
- **DO NOT SATURATE WITH SOLVENT.**
- **DO NOT USE WATER**

These wallcovering can on be spot cleaned, using a mild water-free solvent. Clean only in a well-ventilated room and avoid any products containing tetrachloride or other toxic materials. Pretest small area before proceeding.

Carnegie recommends professional commercial cleaning companies be used to clean our wall coverings and upholstered wall fabrics.

As with all quality fabrics, proper care, spot and stain removal, plus over all maintenance on an annual or semi annual basis are suggested.

Customary care procedures include quick response by blotting fresh spills, basic spot and stain removal and over all professional cleaning when a soiled condition is reached.

If the customer chooses to self-clean please be aware that wallcoverings containing cotton, linen or rayon, a water based cleaner is not the preferred method. The cellulose fibers will absorb water and will leave a stain. Only a mild pure water-free dry cleaning solvent may be used.

In addition, we have chemically treated Fabric Cleaning Sponges which can be used to remove light soil and finger prints. The sponges are sold in packages of 6 for \$36.00.

## **DURABLE NONWOVEN WALLCOVERINGS**

Alternative Walls

### **CLEANING CODE: W**

- **CLEAN ONLY WITH WATER-BASED SOLUTION**
- **DO NOT OVER WET**
- **DO NOT USE SOLVENTS TO SPOT CLEAN**

### **General Care/Maintenance**

The Durable Nonwoven wallcovering group is very cleanable, and rather durable. However, the surface is more fibrous, and can be damaged by aggressive scrubbing.

Frequent wiping with a clean, damp, soft cloth. Everyday dirt, dust and smudges should be first wiped with a soft, cloth or damp Kleenex. When performing standard cleaning or attempting to remove stains, it is advised to use a soft, lint-free cloth.

For spot or stain cleaning, the stain should first be blotted damp Kleenex tissue, then rubbed gently and blotted with an absorbent cloth. Residue can be removed with small amounts of a mild soap (such as Ivory) and water. Do not saturate with liquid. For best results, clean soiling immediately as occurs.

### **DURABLE WOVEN WALLCOVERINGS**

Mirage, Looped, Latitude, Oasis, Dunes, Composite

#### **CLEANING CODE: WS**

- **CLEAN WITH MILD DETERGENT SHAMPOO, FOAM, OR DRY CLEANING SOLVENTS.**
- **DO NOT SATURATE WITH LIQUIDS.**

The Durable Woven wallcovering group comes with Stain resistant finish which enables easy cleaning. However, as with all quality fabrics, proper care, spot and stain removal, plus over all maintenance on an annual or semi annual basis are suggested.

Customary care procedures include quick response by blotting fresh spills, basic spot and stain removal and over all professional cleaning when a soiled condition is reached.

Polypropylene and Polyester blends can all be cleaned with both water-based and Solvents Based Cleaning systems.

In addition, we have chemically treated Fabric Cleaning Sponges which can be used to remove light soil and finger prints. The sponges are sold in packages of 6 for \$36.00

## **FABRICS WITH TOPICAL FR TREATMENT**

### **CLEANING CODE: S:**

- **CLEAN ONLY WITH DRY CLEANING SOLVENT.**
- **DO NOT SATURATE WITH SOLVENT.**
- **DO NOT USE WATER**

If a fabric has been topically flame retardant treated, it should be solvent cleaned ("S" cleaning code) only. The flame retardant processing involves, in most cases, water-based flame retardants and, therefore, water-based cleaning systems will dissolve or diminish flame retardant properties.

## **CLEANING IN HEALTHCARE SETTING**

In a health care setting, our Xorel Wallcoverings can be used to set the tone of the environment while protecting the walls from damage, and are designed to work in healthcare settings. Xorel can be cleaner with typical disinfectants.

In the case of disinfectants and sanitizers, many find it difficult to locate natural substitutes that have been approved by the EPA. Therefore, most healthcare facilities still use currently available germicides

As such, the use of the appropriate germicide when cleaning certain fabrics is extremely important. In healthcare settings, there are five general categories of germicides used for cleaning

### **1) PHENOLICS**

**Examples:** Benzyl-4-chlorophenol, Amylphenol, Phenylphenol

**Advantages and disadvantages:** good general purpose disinfectants, not readily inactivated by organic matter, active against wide range of organisms (including mycobacteria), but not sporicidal.

### **2) HALOGENS**

**Examples:** hypochlorites, bleach

**Advantages and disadvantages:** cheap, effective, act by release of free chlorine, active against viruses and therefore recommended for disinfection of equipment soiled with blood (because of HIV and hepatitis risk), but rapidly inactivated by organic material and corrosive to metals.

### 3) ALCOHOLS

**Examples and usage:** ethyl alcohol (ethanol), isopropyl alcohol (isopropanol).

**Comments:** good choice for skin disinfection and for cleaning surfaces, sometimes used in combination with iodine or chlorhexidine. Water must be present for bacterial killing. Isopropanol is preferred for skin and articles in contact with patient.

### 4) ALDEHYDES

**Example:** glutaraldehyde

**Advantages and disadvantages:** kills vegetative organisms including mycobacteria slowly but effectively. More active, less toxic than formaldehyde, sporicidal (within 6 hours when fresh), irritant, used in alkaline solution which is stable 1-2 weeks, expensive, limited use (e.g., disinfection of endoscopes).

### 5) QUATERNARY AMINES

**Example:** Alkyl dimethyl benzyl ammonium chloride, Alkyl dimethyl ethylbenzyl ammonium chloride

**Advantages and disadvantages:** effective at low concentrations. Inexpensive broadly effective surface disinfectant.

Note: The five categories were noted as part of the Medical Industry Waste Disposal Roundtable sponsored by Medical Industry Round Table (MIRT)<sup>1</sup>

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<sup>1</sup> <http://www.pprc.org/mirt/meetings/medmin2.cfm>

## COMMON DISINFECTANT BRANDS ON MARKET<sup>2</sup>

TRADE NAME	TYPE	MANUFACTURE
Alcide LD	Chloride Oxide	Alcide
Beaucoup	Phenolic	Huntington
Galahad	Phenolic	Puritan/Churchill
LPH	Phenolic	Calgon Vestal
Matar	Phenolic	Huntington
A33	Quaternary	Airkem
Absolute	Quaternary	Walton-March
Blue Chip	Quaternary	S.C Johnson Corp.
Coverage	Quaternary	Calgon-Vestal
El Dorado Plus	Quaternary	Puritan/Churchill
Elimstaph	Quaternary	Water G. Legge
Forward DC	Quaternary	S.C Johnson Corp.
Franklin Sentinel	Quaternary	Purex
Hi-Tor Plus	Quaternary	Huntington
Insurance	Quaternary	CalgonVestal
Omega	Quaternary	Airkem
Pro-Tech RDI-36B	Quaternary	Central Solutions, Inc.
Quanto	Quaternary	Huntington
Sanikleen	Quaternary	West Chemical
Sanimaster III	Quaternary	Service Master
Surfacide	Quaternary	Walton-March
Tri-Quat	Quaternary	Calgon Vestal
Vesphere III	Quaternary	Caldon Vestal
Virex 128	Quaternary	S.C Johnson Wax

Note: A complete list of all EPA registered Disinfectant go to Selected EPA Registered Disinfectants at: <http://www.epa.gov/oppad001/chemregindex.htm>

### **Note on Environmentally Friendly Cleaning of “W” and “WS” fabrics**

Environmentally Friendly cleaners can be used for general purpose cleaning. A few are listed below (manufacturers are identified in parenthesis) These cleaners can be substituted for “detergent” when spot cleaning:

- Enviro Care All Purpose Cleaner (Rochester Midland)
- Enz-Away (Naturally Yours)

<sup>2</sup> Disinfectants; Abstract from Global Analysis; February 1, 2007  
<http://www.marketresearch.com/map/prod/1467738.html>; 877 pages.

- N1 All-Purpose (The Clean Environment)
- Cleaner Concentrate (Ultra Shield)
- Seventh Generation (Seventh Generation Inc.)
- Begley's Best All Purpose Cleaner (Begley's Best Co.)
- Greening the Clean (Deidre Imus Inc.)
- Code Green (Clean Craft Products)
- Structured By Nature Encapsulating Spotter (Nilodor Inc)

Environmentally friendly degreaser products that can be used for oily and greasy stains are listed below (manufacturers are identified in parenthesis):

- ECO 2000 Multiuse Degreaser/Cleaner (KC Products)
- Green Uniclean Degreaser and Floor Cleaner (Ipax Cleanogel)
- Formula G510 (Gaylord Industries)
- Magic 555 Industrial Degreaser and Cleaner (P&D Creative)

Note: **On Oily / Greasy for W-S and S coded fabrics**, in addition to the recommended method some stains (perspiration and body oils) respond well to dry cleaning such as:

- Host ( Racine Industrustries)
- Capture (Milliken)
- Bonafides (Drummond American)
- Keft (Texize)

**ALWAYS FOLLOW THE DIRECTIONS ON THE LABEL.**

### HELPFUL LINKS

- 1) <http://www.greenseal.org/findaproduct/cleaners.cfm>
- 2) <http://www.epa.gov/epp/pubs/products/cleaning.htm>
- 3) <http://www.doi.gov/greening/sustain/clean.html>
- 4) <http://www.dienviro.com/index1.aspx?BD=17984>
- 5) <Http://www.greenblue.org>