

SYON-5, 3 Easy Steps

The following is our most recent recommendations for our 3 easy steps to Powerbond maintenance utilizing SYON-5. Please be sure to advise them of the proper dilutions and application rates, so as not to interfere with the positive end results we all are looking for and expect.

The SYON-5 should be expected to be used undiluted when used in the high/heavy traffic areas, and on cases of concentrated urine contamination.

It should be diluted 1:4 (32oz of SYON-5/ 1 gallon of water) for heavy soiling conditions (anywhere soiling can be visually detected), in areas with slight urine contamination and when utilized as a prespray prior to extraction.

It should be diluted 1:10 (13 oz of SYON-5/ 1 gallon of water) for routine, primary cleaning procedures utilizing a Whittaker GLS Machine for mechanical agitation.

The application rate should remain fairly consistent, with each diluted gallon being applied to 1000 square feet. This is an industry standard. The 1:4 dilution, when used as a prespray, can be applied at the rate of each diluted gallon to 2000 sq. ft. They must understand that only an area large, or small, enough to be cleaned/rinsed within 20 minutes should be presprayed at any one time, if extraction is going to be performed. All presprays require an adequate dwell time, typically 8-12 minutes, and are much more effective when agitated mechanically, immediately following the application and prior to the extraction process.

The 3 Easy Steps:

- 1) Pre-vacuum area to be cleaned.
- 2) Apply SYON-5, diluted accordingly as outlined above.
- 3) Agitate with a mechanical cylindrical brush, such as a Whittaker Roamer or GLS Machine, brushing in a perpendicular pattern. This procedure is completed by post-vacuuming, after the floorcovering has dried thoroughly.



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IMPORTANT SYON-5 FACTS

What is SYON-5?

SYON-5 is a breakthrough Australian tea tree oil solution that eliminates the odors caused by moisture, spills and accidents, including urine. The tea tree oil technology has been utilized and proven effective in Australia for many years.

How does SYON-5 work?

- Removes urine odor
- Deodorizes
- Cleans

The powerful, but safe, chemical formula of SYON-5 works to attack the enzymes that cause off gassing – the source of urine’s foul odor. The added bonus of SYON-5 is that the product continues to work between applications, thereby blocking the return of lingering unpleasant odors.

How will I know that SYON-5 is working?

The black light system lets SYON-5 users know when uric acid crystals have been completely removed. Research showed that urine odor results from the presence of uric acid crystals that are most easily visible under a UV black light. By shining the light before cleaning, the source of the odor is easily identified. After applying SYON-5 as directed, the black light will show no signs of the uric acid crystals.

Is SYON-5 only effective on flooring?

SYON-5 is recommended for use on all hard and fibrous surfaces. The product is guaranteed to be effective when used on C&A’s Powerbond floor covering. It is warranted for use on Powerbond because the chemically welded seams keep spills on the surface where SYON-5 is most effective. However, after thorough field-testing, it was discovered that floor coverings were the source of only 20% of pervasive urine odor. The remaining 80% of the problem was attributed to bathroom tiles, bedpans, beds, wheelchairs, ventilators, and an array of other sites in patient/resident rooms.



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DOES SYON-5 REALLY WORK?

SYON-5 was field-tested over a one-year period at a select group of facilities. Here's what they say:

Mary Bertram, Environmental Supervisor, The Pavilion of Waukegan, Waukegan, IL

“SYON-5 is a fabulous product that truly does what it says it does! When dealing with urine odor, the best way to eliminate it is to eradicate the source. That's what SYON-5 does. I even use it on the laundry. I'm sold!”

John Mathison, Administrator, Pipestone Good Samaritan Village, Pipestone, MN

“Our housekeeping staff was told that SYON-5 would eliminate the urine smell in our carpet. We used the product and the smell was gone the next day!”

Brenda Swartz, Director of Environmental Services, St. Lucas Care Center, Faribault, MN

“We used the C&A product and we saw results immediately! After using SYON-5 there was no more urine odor.”

Charles Whitehead, Chief Engineer, Sycamore Shoals Hospital, Elizabethton, TN

“We have struggled with urine odor problems for a long time and nothing has ever worked – until now. SYON-5 worked so well that we ordered the product as soon as we tested it and we have been using it ever since!”

Scott Crabtree, Executive Director, Poydras Home, New Orleans, LA

“After using SYON-5, we not only eliminated our urine odor, we were left with a beautiful fresh scent that smelled like a lightning storm, unlike deodorizers that mask odor with harsh perfume-like fragrances. The black light showed us that the urine stains were successfully removed.”

1999 HEALTHCARE DESIGN COUNCIL REACTS TO SYON-5

Elizabeth Brawley, Design Concepts Unlimited, Sausalito, CA

“One factor that often keeps family and friends from visiting loved ones at nursing homes or in hospitals is the unpleasant odor associated with many facilities. SYON-5 has the potential to create an environment free of urine odor. An odor-free environment can prevent residents/patients from feeling isolated.”

Mary Anne Hammond, President, Health Care Interiors, Charlotte, NC

“SYON-5 will enable facilities that would not ordinarily choose carpet, or soft-surface floor covering, to make the switch. I will definitely recommend the product to my clients.”

Pat Hennings, Interior Arts, Inc., Fresno, CA

“SYON-5 is a blessing for skilled nursing and Alzheimer's facilities. Incontinence is a constant problem. SYON-5 will eliminate that worry and improve the healthcare environment.”

Jennifer MacDaniel, Designer, Windchime Group, Walnut Creek, CA

“When choosing a facility for a loved one first impressions mean everything. There has been an enormous need for a product like SYON-5 in this country for ages. With SYON-5, facilities that are new or old can all have the potential for a fresh, home-like atmosphere.”

Beverly Thomas, President, Contract Environments, Inc., Wilmington, DE

“SYON-5 is a fabulous product. I have already told three clients about it. C&A is right where the entire industry should be. We need to focus on developing products that provide solutions to real-life situations and make the healthcare environment softer and more homey. SYON-5 does exactly that.”

Howard and Judith Yarme, Yarme & Co., Barrington, RI

“The C&A Powerbond/SYON-5 combination finally solves the difficult issue of urine odor control in the healthcare environment. Designers and owners can now feel that installing Powerbond and using SYON-5 in patient/resident rooms is the responsible and intelligent choice for flooring. This powerful combination eliminates urine odors – an important contribution to the tools we now have for creating more effective healthcare.”



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For Immediate Release:

NEW PRODUCT SOLVES AGE-OLD URINE ODOR PROBLEM

Leading Healthcare Facility Designers Call SYON-5 “The Future of Healthcare Flooring”

Dalton, GA, March 1, 1999 – C&A Floorcoverings today introduced the healthcare industry to SYON-5, a breakthrough product that can eliminate urine odor, a historically prevalent problem in hospitals and long-term care facilities. SYON-5, the only product of its kind available in North America, made its official debut at the the Second Annual Healthcare Design Council on February 16-18, a conference sponsored by C&A, at which leading healthcare designers and researchers discussed the future course of healthcare facilities design.

SYON-5 is a patented Australian tea tree oil solution which, when applied as directed, removes urine odor, deodorizes and cleans. The tea tree oil technology has been utilized and proven effective in Australia for many years. SYON-5’s powerful, safe formula works to attack the human and bacterial enzymes that cause off gassing – the source of urine’s foul odor. By applying SYON-5 directly to uric acid crystals, odor-causing enzymes are neutralized and lifted from the source, thereby preventing the regeneration of odor-causing bacteria. This simultaneous occurrence is the key to the elimination of urine odor.

“We salute C&A for finding a way to improve the healthcare environment for patients and residents by developing SYON-5 to eliminate odors caused by incontinence,” stated Howard Yarme, co-director of the Health Care Facility Research Consortium who attended the recent Design Council meeting. “Creating environments that can be kept fresh, clean and soil-free is an important step toward supporting these individuals.”

“SYON-5 makes urine odor a thing of the past,” commented Steve Hillis, General Manager of Healthcare Marketing for C&A. “Indoor air quality has always been a key component of our floor covering design. SYON-5 is a natural extension of our efforts in that arena.”

C&A invested one year of in-field testing at various healthcare facilities to ensure the efficacy of the SYON-5 system. Not only did SYON-5 eliminate urine odor on C&A’s Powerbond soft surface floor covering, but on hard and fibrous surfaces including beds, wheelchairs, bathroom tiles, and other assorted surfaces. C&A first made waves in 1967 with the introduction of Powerbond, a cushioned vinyl back soft surface floor covering with chemically welded seams. In 1988, Powerbond RS raised the standard for healthcare flooring due to its unequaled indoor air quality features and reduction in installation downtime. Powerbond actually prevents contamination to subflooring that can occur with liquid spills on ordinary carpet. Powerbond’s permanent moisture barrier keeps spills on the surface where SYON-5 is most effective. SYON-5 is guaranteed to solve urine odor problems when used on C&A’s Powerbond.

“The combination of SYON-5 and Powerbond flooring provides the one-two punch healthcare institutions need to maintain a fresh, odor-free environment for patients, residents and staff,” continued Hillis.

C&A is bringing SYON-5 to the United States in collaboration with Whiteley Medical, an Australian company that is a leader in the infection control industry.

C&A Floorcoverings is a Georgia based corporation with a floor covering product engineered for the healthcare environment. Since 1967, with the development of Powerbond, C&A has been the pioneer of soft surface floor covering for healthcare facilities. SYON-5 is the most recent innovation to come out of C&A Floorcoverings. For more information on SYON-5 and/or Powerbond, write to C&A Floorcoverings, Attention: Healthcare Marketing Department, 311 Smith Industrial Boulevard, Dalton, GA 30722, or call (800) 655-1075. Or, visit the website at www.powerbond.com.



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For Immediate Release:

HEALTHCARE DESIGN COUNCIL AIMS TO ESTABLISH STANDARDS FOR INTERIOR ENVIRONMENT

San Francisco, CA, April 22, 1999 - The country's leading healthcare interior designers and researchers today announced plans to establish industry standards to improve indoor air quality and patient safety. The group's mission will be to educate designers and facilities specifiers on the critical, but often overlooked, impact of materials selection on the potential therapeutic value of the interior environment. The Council's program will be comprised of a series of research projects and accredited educational seminars.

"Design schools unfortunately do not offer curriculum in how to create an assisted living or long-term care facility that is functional, attractive and appropriate for the type of patient or resident in the facility," commented Elizabeth Brawley, a designer from Design Concepts Unlimited and 1999 Healthcare Design Council member. "We have a responsibility to provide this information to designers to improve future facility design."

"An Alzheimer patient needs a certain kind of coloring and lighting for maximum quality of life," stated Beverly Thomas, President of Contract Environments and member of the Design Council. "A children's wing in a hospital requires a very different kind of design. We need to get together as an industry and follow a set of guidelines that will help us all design home-like, comfortable and functional healthcare settings."

Flooring and the Interior Environment

The group's initial focus will be floor covering, one of the most under-considered elements in facilities design. Historically, decisions about floor covering have been based primarily on economics and ease of maintenance. The 1999 Design Council members unanimously concluded that administrators, materials, specifiers, architects and designers need to consider more than initial cost and experience when choosing floor coverings for patient/resident rooms and clinical and common areas. According to the Council, the "cost of ownership" and life cycle cost can be more important than initial cost to purchase. Safety, indoor air quality and maintenance must be considered when specifying floor covering for the healthcare environment.

Inappropriate flooring can create a variety of serious environmental hazards to patients and staff, including off-gassing and a high incidence of slip/fall, according to Howard Yarme, co-director of the Health Care Facility Research Consortium and a member of the Healthcare Design Council. To minimize these risk factors in tomorrow's healthcare facilities, the Council proposes to establish six areas of investigation: color, pattern, safety, indoor air quality, infection control and aesthetics.

Safety in the Healthcare Environment

The Design Council is giving special priority to reducing the incidence of slip/fall. The Council has already spearheaded its initial research project at a major long-term care facility in the Northeast. By examining a variety of flooring issues, including pattern, acoustics and glare among others, the Design Council hopes to discover how to create a reduced-risk environment for long-term care residents. The results of this research will be made available to the industry through white papers, seminars and healthcare industry trade shows.

"As designers and researchers, we need to play a more active role in ensuring that residents in long-term care facilities are safe and comfortable," stated Mr. Yarme. "The facility we are currently using as our research site has provided us with access to a wealth of data that has been collected by the facility's staff. To move the project forward, we will meet with employees, administrators, residents and family members to get the insider's look at the safety issues they each face."

Design Council members are also investigating additional research site opportunities. The Council has developed connections with several universities to allow for additional research and accurate measurement of the data that will be gathered over the course of current and potential future projects.

Industry Leadership

C&A Floorcoverings, a pioneer of environment and performance integrity in commercial flooring, created the Healthcare Design Council in 1997. It was conceived as an authoritative forum for industry leaders to address the changing needs of the interior environment in healthcare facilities.

Attendees of this year's annual Council meeting, held in San Francisco from February 16-18, included some of the most highly regarded healthcare designers and researchers in the industry:

- ◆ Elizabeth Brawley, IIDA, Design Concepts Unlimited, Sausalito, CA
- ◆ Barbara Riley Collins, Euthenics, Inc., St. Petersburg, FL
- ◆ Mary Anne Hammond, ASID, IIDA, Health Care Interiors, Charlotte, NC
- ◆ Pat Hennings, ASID, IIDA, Interior Arts, Inc., Fresno, CA
- ◆ Jennifer MacDaniel, Allied ASID, Windchime Group, Walnut Creek, CA
- ◆ Beverly Thomas, IIDA, Contract Environments, Wilmington, DE
- ◆ Howard Yarme, IFMA, Yarme & Co., Barrington, RI
- ◆ Judith Yarme, RN, Yarme & Co., Barrington, RI

The Healthcare Design Council meets annually to discuss prevailing trends and issues in healthcare facilities design. The Council's objective is to develop universal standards for the design of healthcare facilities for the benefit of patients and staff.



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ENVIRONMENTALLY – FRIENDLY

SYON-5

URINE ODOR CONTROL/ALL-PURPOSE CLEANER - SPOTTER

Limited Warranty

*“Satisfaction
Guaranteed”*

Syon-5 is specifically designed for use on Powerbond® soft-surface floorcovering from C&A Floorcoverings. When you use Syon-5 on Powerbond, we guarantee that you will be satisfied with the results. If you use Syon-5 on Powerbond and you are not satisfied that the product reduces the level of urine odor, you can return the unused portion within 30 days of the purchase for a full refund. Contact your local Tandus Account Executive for details. Refund requests must be made within 30 days of purchase. No refund will be granted for empty product containers. We cannot guarantee the safety or performance of Syon-5 on surfaces other than Powerbond soft-surface flooring from C&A Floorcoverings.

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Name: C&A Floorcoverings
SYON-5

II. COMPOSITION / INFORMATION ON INGREDIENTS

Components

Material	CAS Number	Percent
WATER	7732-18-5	> 90
ANIONIC SURFACTANT	-----	-----
BACTERICIDE	-----	-----
TERPENE HYDROCARBONS	-----	-----

III. HMIS (0 = minimal hazard; 4 = severe hazard):

Health = 1 Flammability = 0 Reactivity = 0

IV. PHYSICAL PROPERTIES

No Optical Brighteners

Vapor Density (Air=1): = Water

Boiling Point: 100°C

Melting Point: N/A

Specific Gravity: 1.02

Solubility in Water: 100%

Vapor Pressure: = Water

Evaporation Rate (Butyl Acetate = 1): 0.10

Appearance & Odor: Clear Solution, Terpene like

pH: 7.0

V. FIRE AND EXPLOSION HAZARD DATA

FLAMMABLE PROPERTIES: Non-flammable. EXTINGUISHING MEDIA: Appropriate for surrounding media. SPECIAL FIRE FIGHTING PROCEDURES: None required. DOT CATEGORY: Not regulated.

VI. HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE: EYES: May irritate eyes. SKIN: Very mild irritant. Prolonged or repeated contact may lead to dermatitis. INHALATION: May be irritant. INGESTION: Will cause abdominal pain and nausea. CHRONIC (CANCER) INFORMATION: None of the components present in this material at concentrations of 0.1% or greater are listed by IARC, NTP, OSHA, ACGIH as carcinogens. FIRST AID PROCEDURES: EYES: Flush with water for at least 15 minutes. Seek medical attention if required. SKIN: Remove contaminated clothing. Wash with soap and water. Refer to physician if irritation develops or symptoms persist. INHALATION: Remove to fresh air, if needed. Seek medical attention if required. INGESTION: Drink two glasses of water. Induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention. NOTICE TO PHYSICIAN: Treat asymptotically.

VII. REACTIVITY DATA

STABILITY: Stable under normal conditions

INCOMPATIBILITY(Materials to avoid): Oxidizing Materials


HAZARDOUS POLYMERIZATION: Will not occur

VIII. REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status: Reported / Included

Canadian SDL Status: Included


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SYON-5

Revised: 02/04

C&A Floorcoverings
P.O. Box 1447 • 1000 Vista Drive
Dalton, GA 30721
Emergency Telephone: 1 (800) 424-9300
Information Telephone: 1 (706) 259-9711
International Emergency:
Call USA 202-483-7616

IX. SPILL & DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED:

Use absorbent material to collect and contain for salvage or disposal. Mop up and clean area with water. Use appropriate personal protective equipment during clean up. WASTE DISPOSAL: Abide by all state, federal and local regulations regarding treatment, storage, transportation and disposal. Keep out of sewer and waterways. AQUATIC TOXICITY: Expected to be negligible. TOXICOLOGICAL INFORMATION: No toxicity is available on this specific preparation. Based on the toxicity of the components material is expected to be a skin and eye irritant.

X. SPECIAL HANDLING INFORMATION

VENTILATION: Use local exhaust. RESPIRATORY PROTECTION: A breathing mask may be required to avoid exposure to mist if sprayed. SKIN AND EYE PROTECTION: The use of safety glasses and gloves is recommended. Goggles may be required to avoid exposure to mist if sprayed. Wash thoroughly after handling. STORAGE: Store in clean, dry area.

XI. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Do not puncture. Shelf life is one year. KEEP OUT OF REACH OF CHILDREN.

XII. OTHER INFORMATION

State Right-to-Know Laws: No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except those specifically listed below:
WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None Known. WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None Known.

C&A FLOORCOVERINGS BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS OF THE DATE HEREOF. COLLINS & AIKMAN MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR YOUR CONSIDERATION, INVESTIGATION AND VERIFICATION.



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Powerbond® CARE

Success in 5 Easy Steps



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Powerbond® CARE is unlike any other carpet maintenance plan in use today for one reason. Powerbond is not conventional carpet. Rather, it is a unique technology that combines all the benefits of soft-surface floorcovering with the durability of sheet vinyl. The result is a floorcovering that is easier to maintain than other flooring. Powerbond CARE requires less labor and fewer cleaning solutions, yet produces better results. In fact, when implemented properly, the CARE system can lower your overall maintenance costs, while ensuring that Powerbond provides the highest level of appearance retention over its life cycle. We believe you'll find that Powerbond CARE will make quite a difference for you and your facility. At C&A, we've chosen not to just make floorcovering but to also make a difference. Rather than follow the rout that others are taking, we're walking a different path. It's a philosophy that is reflected in everything we do, from our business strategies right down to our maintenance system. Walk with us. Link Engineering is unique to C&A and key to Powerbond's ease of maintenance, superior, long-term performance and appearance retention characteristics.

Proving that Powerbond is greater than the sum of its parts, Link Engineering connects yarn, backing, construction, installation, and maintenance in such a way that each key component supports the others to create a higher performance product. When installed by a trained and certified installer, Link Engineered Powerbond can provide the unique, long-term performance that is expected from C&A floorcovering products with 15- and 20-year, non-prorated warranties.

Powerbond is easier and less costly to maintain over its life cycle than either hard-surface floors or conventional carpet. The dense face construction and moisture-impermeable vinyl-polymer backing of Powerbond keeps spills and soil on the surface where they are easier to clean.

This translates directly into easier and less costly maintenance on a product that has been proven to last up to 5 times longer than conventional carpet.

STEP 1 IDENTIFY TRAFFIC PATTERNS

The first step in the creation of an effective maintenance plan is to evaluate the traffic patterns in your facility. Using a floor plan of the facility, identify each of the areas. Color coding the plan is helpful.

STEP 2 ESTABLISH A CLEANING SCHEDULE

Track-Off Areas

These are areas where outside soil is tracked in (entrances, lobbies, restrooms, elevators, and areas next to hard-surface flooring). These areas require more attention than almost any other area in the facility.

- Vacuum daily using multiple passes.
- Pile lift to loosen embedded soil prior to extraction.
- Wet extract every month or as necessary to maintain desired appearance level.
- Spot clean as necessary.

Heavy Traffic Zones

These are areas that experience more than 1,000 foot traffics per day (traffic lanes, pivot points and funnel areas).

- Vacuum daily using multiple passes.
- Pile lift to loosen embedded soil prior to extraction.



- Wet extract every month or as necessary to maintain desired appearance level.
- Spot clean as necessary.

Moderate Traffic Zones

These are areas that experience 500 to 1,000 foot traffics per day (secondary hallways, offices and light-use common areas).

- Vacuum traffic lanes daily.
- Full vacuum 2-3 times weekly.
- Pile lift to loosen embedded soil prior to extraction.
- Wet extract every 3 months or as necessary to maintain desired appearance level.
- Spot clean and vacuum as necessary.

Light Traffic Zones

These are areas that experience less than 500-foot traffics per day (conference rooms, administrative areas, areas outside of traffic lanes, and limited use-area).

- Vacuum traffic lanes daily.
- Full vacuum weekly.
- Pile lift to loosen embedded soil prior to extraction.
- Wet extract every 6 months or as necessary to maintain desired appearance level.
- Spot clean and vacuum as necessary.

Areas Prone to Spots and Stains

(break rooms, coffee areas and areas near kitchens)

- Pre-vacuum prior to spot cleaning.
- Spot clean daily, as necessary.

STEP 3 CHOOSE THE PROPER EQUIPMENT

Effective, well-functioning equipment is required for a successful maintenance program. Below are specific requirements for the type of equipment to be used on Powerbond:

Vacuum Cleaner

Vacuuming is the single most important activity for Powerbond maintenance. Approximately 80%-90% of the soil deposited into the carpet is dry. If not removed regularly by vacuum, dry soil can abrade and permanently damage carpet fibers.

C&A recommends a commercial vacuum cleaner that exceeds the established industry standards for soil removal. For improved indoor air quality, the vacuum should offer high-efficiency filtration and emit minimal particles into the air. (C&A can provide a list of suggested vacuum cleaners.)

Pile Lifter

A pile lifter is highly recommended to assist in the cleaning process. This machine is designed to aggressively lift the pile fiber and loosen attached soil prior to vacuuming. Because of this aggressiveness, caution must be used if cleaning C&A's Symtex® products. (C&A can provide a list of suggested pile lifters.)



Extractor

Hot water extraction is the preferred method of deep cleaning and maintenance of Powerbond. A water extraction unit used as part of a maintenance program deep cleans Powerbond and removes pre-treated, soluble soil and oil-based spills that regular vacuuming cannot. An extractor injects water into the pile, agitates the fibers and extracts the water and suspended soil.

Extractors come in a variety of sizes. Selection should be based upon the needs of the facility. In general, the following minimum performance should be considered:

- Extractor should be C&A approved and capable of extracting a maximum volume of water injected into Powerbond pile fiber.
- All components should be made of a material that is non-corrosive and will not rust or deteriorate in the presence of water and/or cleaning solutions.
- Extractor should be able to generate a minimum of 50 pounds per square inch (psi) of pressure and should not exceed 400 psi. (C&A can provide a list of suggested extractors.)

Portable Air Mover

Powerbond can dry within 2 to 3 hours in most environments. Drying time should never exceed 12 hours.

- When extreme environmental conditions exist (relative humidity exceeds 65%), an air mover or drying fan should be used to accelerate drying time. (C&A can provide a list of suggested portable air movers.)

STEP 4 USE THE RIGHT CLEANING SOLUTIONS

All cleaning solutions must be used according to the manufacturer's instructions. Review the material safety data sheets (MSDS) and product labels on all solutions, being aware of any precautions and usage guidelines.

Below are the minimum requirements for cleaning solutions to be used on Powerbond.

Contact your supplier for assurance that these guidelines are met:

- Must be safe and non-toxic.
- Contains no optical brighteners.
- Has a pH between 5 and 9 diluted for normal cleaning.
- Does not leave a sticky or oily residue when dried.
- Will not damage Powerbond's fiber or color.
- Will not promote rapid soiling.

To evaluate the type of residue a solution leaves behind, conduct this test: Prepare the solution and pour in a pan. Place in direct sunlight and allow to evaporate. If it leaves a sticky or oily residue, do not use. C&A can provide approved cleaning agents and deodorizers for Powerbond. These cleaners have been tested for appropriate pH levels, absence of optical brighteners and zero resoil potential. The products have been tested exclusively for Powerbond.

Powerbond's vinyl-polymer backing is an impermeable moisture barrier which keeps spills on the surface, preventing them from penetrating into the subfloor and creating potential indoor air quality concerns.



STEP 5 USE THE PROPER CLEANING PROCEDURES

Proper cleaning procedures are a key element of the maintenance program.

C&A offers the following guidelines:

Vacuuming

- Make sure the vacuum cleaner is in proper working order before each use. (Clean all components regularly.)
- Use slow, deliberate passes. Slowing the vacuum down allows the suction to loosen and remove the embedded dry soil that can abrade and damage fibers.
- Pay careful attention to the “pull” stroke. More soil is removed in this action than in the forward stroke.
- Empty vacuum bags when they become half full to improve soil removal.
- Replace nylon brushes at the first sign of wear.
- Use only original equipment manufacturer parts for consistent performance.

Spill Removal

Spills may require cleaning solutions to remove.

- As soon as a spill occurs, use a portable spot removal extractor.
- If a portable spot removal extractor is not available, the liquid should be blotted into paper or cloth towels.
- Place several layers of towels over the spill and apply pressure until all of the excess liquid has been removed.

Spot Removal

Some spots may be more difficult to remove and may require aggressive spotting solutions. The first step in removing a spot is to determine if it is a water-soluble or oil-based. This will help in the selection of a cleaning solution. A recommended approach is to first apply water. Water-soluble spots will transfer to the absorbent towel; oil-based spots will not. In rare occurrences, some stains may be permanent.

- For water-based spots:

Continue rinsing with water as long as there is transfer to the towel. A cleaning agent may not be necessary if water continues to remove the spot. If a cleaning agent is needed, apply an approved spot lifter to the area and allow to soak for 5 minutes. Then, flush thoroughly with water until all detergent residue has been removed. Repeat this process until the spot is removed.

- For oil-based spots:

After blotting to remove excess liquid, apply a non-water based dry cleaning solvent* to a towel and apply to the spot. (Applying a dry-cleaning solvent directly to the Powerbond surface may allow the spot to spread.) Work from the outer edges of the spot to limit spreading. Continue to reapply solution in this manner until the spot is completely removed. Then flush thoroughly with water until all residue has been removed.

In case of permanent stains, repairs may be necessary.*Dry-cleaning solvents denote isopropyl alcohol, denatured alcohol and other, non-water-based cleaning solutions.



Extraction

In addition to vacuuming and spot removal, hot water extraction will help maintain Powerbond’s appearance. Because Powerbond CARE does not permit the use of detergents in the extractor rinse tank, a pre-spray is recommended prior to extraction.

The procedure for effective soil removal is as follows:

- Pile lift all heavy soiling areas.
- Thoroughly vacuum the entire area to remove dry soil.
- NEVER USE DETERGENT IN THE EXTRACTOR RINSE TANK.
- Pre-spray the area with an approved pre-spray solution.
- Use mechanical agitation for improved cleaning results.
- Allow the solution to remain undisturbed for 5 to 10 minutes. This will make the soil easier to remove.
- Extract the area thoroughly to rinse and remove all the detergent and soil.
- Repeat until recovery water is relatively clean.
- Place air movers on the area to expedite the drying time.
- Limit foot traffic on the area until dry.

Extraction equipment guidelines:

- Make sure extractor is in proper working order.
- Disinfect fresh water tank and recovery tank on a weekly basis.
- Replace nylon brushes at the first sign of wear.
- Use only original equipment manufacturer parts for consistent performance.

REGIONAL LOCATIONS

NEW YORK

212.206.7170

NEW ENGLAND

860.274.8768

MID-ATLANTIC

801.594.500

SOUTHEAST

770.428.4449

MIDWEST

312.467.9515

GREAT LAKES

616.458.2375

SOUTHWEST

214.749.0663

SOUTHERN CALIFORNIA

949.863.9666

NORTHWEST

415.986.3564

ROCKY MOUNTAIN

303.741.0051

U.K. LIMITED

44.1495.290290

ASIA LIMITED

65.281.2665



WARRANTY

Powerbond is constructed using **link engineering technology**. This allows C&A to offer 15- and 20-year, non-prorated, limited warranties* on Powerbond against excessive surface wear, edge ravel, zippering, resiliency loss of backing, delamination of the secondary backing from the primary backing, and excessive static electricity.

THIS WARRANTY COVERAGE REQUIRES PROPER INSTALLATION AND MAINTENANCE PROCEDURES.



311 SMITH INDUSTRIAL BOULEVARD P.O. BOX 1447 DALTON, GEORGIA 30722-1447

1.800.248.2878 WWW.POWERBOND.COM

***See limited warranty for details.**



CARE - QUICK REFERENCE

A. Entry Mats

Allow at least 4 to 6 “foot falls” on each mat if possible.

1. Exterior Mat
2. Foyer Mat
3. Interior Mat

Exterior mats can be swept daily to remove loose debris. Scrub and hose down as needed to remove grease or oil deposits. Interior and foyer mats should be vacuumed daily and extraction cleaned as needed.

B. Vacuuming

Two-Motor Vacuum or Backpack Vacuum, using slow overlapping vacuum passes. Heavy traffic areas, such as traffic lane, pivot points, checkout counters, phone banks, elevators, etc., may require interim pile lifting.

C. Spot Cleaning

Unknown Spots -

1. Flush with water. Blot or extract thoroughly.
2. Check for spot transfer. (White towel test)
3. Use appropriate spot cleaner. (Ex: C&A’s Syon-5; Chemspec’s Spray & Go)
4. Rinse thoroughly.

Oil-Based Spots: Tar, Gum, Etc.

1. Apply solvent base spot cleaner to towel and blot thoroughly. (Ex: Bane-Clene’s Saf-T-Solv)
2. Extract remaining residue.

Water-based spots: Colas, Juices, Coffee, Etc.

1. Use same procedure as listed above for Unknown Spots.
2. Use Tannin Remover for coffee, tea or beverage spills.

A. Water Extraction

Frequency will be determined by traffic. Powerbond should be cleaned before soil or traffic patterns are Visible.

1. Vacuum.
2. Apply appropriate pre-spray.
3. Agitate / Pile lift
4. Allow recommended dwell time.
5. Rinse/extract using clean water only.
6. Use floor fans to dry flooring thoroughly before allowing traffic on it.

HELPFUL HINTS:

1. If area is very dirty or has a detergent buildup, it will be necessary to make more than two passes. Check the recovery tank. If the water is very dirty or a lot of foam is present, make additional passes over the soiled area.
2. If the area required several passes, make several “vacuum only” passes for maximum water recovery. These extra passes will reduce drying time.



Tandus

Monterey C&A Crossley

Approved Equipment Listing

P.O. Box 1447, Dalton, Georgia 30722-1447
800.241.4902 Ex. 2120 ■ carpetcare@tandus.com

EXTRACTORS		VACUUM CLEANERS	
Manufacturer	Model Name / Number	Manufacturer	Model Name / Number
Bane-Clene	MegaPort	Dyson	DC07 Bagless Vacuum Cleaner
Bane-Clene	UltraPort		
Bane-Clene	All Truck Mounts	Kent / Euroclean	Edge 12 Upright Vacuum Cleaner
		Kent / Euroclean	Champion 28 Wide Area Vacuum Cleaner
Nilfisk Advance	Aqua Pro H	Kent / Euroclean	Whisperclean Vacuum Cleaner-Canister
Nilfisk Advance	Aqua Pro XP		
Nilfisk Advance	Aqua Ride - Rider	NACE	NNV Series, NVR Series, NVQ Series-Canister Vac's
Nilfisk Advance	Aqua Max	NACE	RSV Series-Back Pack Vac's
		NACE	E Series-Upright
Nobles	Explorer 1500	NACE	E 700-Wide Area Vac
Nobles	Explorer 1500H	NACE	NVQ Series-HEPA Vac's
Nobles	Falcon 2800 PLUS		
Nobles	Frontier	Nilfisk Advance	Canistar Vacuum Cleaner-Canister
Nobles	Power Eagle 1016	Nilfisk Advance	Carpe Twin 14/18 Vacuum Cleaner
Nobles	Power Eagle 1020	Nilfisk Advance	Carpetriever 28 Wide Area Vacuum Cleaner
Nobles	Strive	Nilfisk Advance	Power One 12 Vacuum Cleaner
NACE*	Avenger 12 QX, TP18SX, TP12QX	Nobles	PortaPac
NACE	Avenger 18AX	Nobles	Magna Twin 16
		Nobles	Magna Twin 22
NSS	Pony 20 SCA	Nobles	Magna Twin 26
NSS	Predator 300 HHP	Nobles	Viper
NSS	Predator CXH 100		
NSS	Stallion 8 SC	NSS	Pacer 30 - Wide Area Vacuum
		NSS	PIG M1
Pacific	Tsunami		
		Pacific	AURA - Wide Area Vacuum
Steamin Demon Company	Steamin Demon II	Pacific	Genius 14/18
		Pro-Team	All Models
Tennant	1610		
Tennant	1530	Racine Indust, Inc.	Host Extractor VAC Liberator EVM
Tennant	1280	Racine Indust, Inc.	Host Extractor VAC Freestyle E-8
Tennant	1260		
Tennant	1240	Tennant	3050
Tennant	1160	Tennant	3000
Tennant	1180	Tennant	3220
		Tennant	3240
Tornado	Marathon 800	Tennant	3260
Tornado	Marathon 1200		
Tornado	Marathon 2000	Tornado	CV-30 (upright)
		Tornado	CV-38 (upright)
Triple S	Hi-Flow	Tornado	CW-50 (upright)
		Tornado	CW-100 (upright)
US Products	Cobra H	Tornado	CK-3030 (wide area)
US Products	HHP 300	Tornado	Super Pro Pac (back pack)
US Products	HHP 310	Tornado	Pro Pac (back pack)
US Products	King Cobra 300	Tornado	T12/1 (canister)
US Products	King Cobra 310		
US Products	King Cobra 500	Triple S	LAV-30 Wide Area Vacuum
US Products	Moccasin 816	Triple S	Pro-Twin Deluxe Upright Vacuum
US Products	Moccasin 2022		
US Products	AG-20	Windsor	Sensor SR 12
		Windsor	VAC PAC
VonSchrader	LMX and VS Mach-12	Windsor	Versamatic PLUS
		Windsor	Wave Wide Area Vacuum
Windsor	Admiral		
Windsor	Cadet		
Windsor	Clipper		
Windsor	Commodore		



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Approved Equipment Listing

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SOIL TRANSFER EXTRACTION			
<i>Manufacturer</i>	<i>Model Name / Number</i>	<i>Manufacturer</i>	<i>Model Name / Number</i>
Nobles	Strive	Tennant	Ready Space 1610

CYLINDRICAL BRUSH SCRUBBER / WET PILE LIFTERS			
<i>Manufacturer</i>	<i>Model Name / Number</i>	<i>Manufacturer</i>	<i>Model Name / Number</i>
Host	Extractor VAC Freestyle E-8	Whittaker	LoMAC 10
Host	Extractor VAC Liberator EVM	Whittaker	LoMAC 15
Host	Reliant T-5	Whittaker	LoMAC 20
NACE*	DP420 DuPlex Hydrowasher	Whittaker	Roto-Wash

RIDER VACUUM / BATTERY POWER SWEEPERS			
<i>Manufacturer</i>	<i>Model Name / Number</i>	<i>Manufacturer</i>	<i>Model Name / Number</i>
Tennant	Power Sweeper 6100 - Rider	Tennant	Scout 37B - Walk Behind

PORTABLE SPOT EXTRACTORS			
<i>Manufacturer</i>	<i>Model Name / Number</i>	<i>Manufacturer</i>	<i>Model Name / Number</i>
Bane-Clene (Mytee)	Tempo	Tornado	PS 8220
Kent / Euroclean	Selectspot	Tornado	PZ-100
Nilfisk Advance	Aqua Spot	Triple S	Power Spotter 2
Nobles	Anser	US Products	CX3
NSS	Predator CX3	US Products	Triple Play Spotter
Pacific Steamex	Hot Spot	Windsor	Presto
Tennant	1000	NACE*	AV 4X (Upright Spotter)

RIDER EXTRACTORS	
<i>Manufacturer</i>	<i>Model Name / Number</i>
Nilfisk/Advance	Aqua Ride

*North American Cleaning Equipment



Tandus

Monterey C&A Crossley

Approved Cleaning Products - HWE Pre-Spray

P.O. Box 1447, Dalton, Georgia 30722-1447
800.241.4902 Ex. 2120 ■ carpetcare@tandus.com

CLEANING PRODUCTS - PRE-SPRAY FOR HOT WATER EXTRACTION

<i>Manufacturer</i>	<i>Product</i>	<i>Date</i>
Adventus Consumer Products	Force Out Odor Eliminator	September 2003
Aramark	Fiber Fresh Liquid Ultra Clean Extraction Cleaner	December 2003
Buckeye	Awaken	September 2003
Buckeye	Gone	September 2003
Buckeye	Pathfinder	September 2003
Bullen	NSR Multi Use	October 2005
Carbonated Solutions	No-Soap, Self-Carbonating Carpet Cleaner	November 2003
C&A Floorcoverings	SYON - 5	January 2005
Clean Control Corp	BioTotal Control	January 2005
CTI	Pro's Choice CPM Carpet Cleaner	December 2003
Dupont	Carpet Prespray & Extraction Cleaner	November 2003
Dupont	General Purpose Spotter	November 2003
Dupont	Resistech	February 2003
Envirox LLC	Quick Spot	October 2003
Envirox LLC	Carpet Complete	October 2003
Hillyard	Double Down	July 2006
Hillyard	Carpet Prespray & Extraction	July 2006
James Varley Solutions	Release	October 2005
James Varley Solutions	Shield Protectant	October 2005
James Varley Solutions	Siege Extraction Cleaner	October 2005
James Varley Solutions	Assault	October 2005
Johnson Diversey	Butchers Head Start Carpet Prespray	December 2003
Johnson Diversey	Butchers Percolator (GP & Coffee Remover)	December 2003
Johnson Diversey	Heavy Duty Prespray	October 2005
Johnson Diversey	Heavy Duty Prespray SC	October 2005
Johnson Diversey	Extraction Rinse	October 2005
Majestic	Carpet Extraction Cleaner	April 2004
Majestic	Carpet Rinse & Neutralizer	April 2004
Majestic	Carpet Sanitizing Extraction / Pre-Spray Cleaner	April 2005
Majestic	Concentrated Extraction Cleaner	April 2005
Majestic	OxyAction	June 2004
Majestic	Resoil Resistant Prespray	June 2004
Majestic	Triple Action Spottor / Deodorizer	April 2004
Majestic	Triple Action Wipes	April 2005
Matrix	Super En Cap Soil Plus	April 2004
Microban	Clean Carpet Sanitizer	June 2005
Microban	Clean Carpet Sanitizer Prespray	June 2005
Microban	QGC	June 2005
Microban	X580	June 2005
Microban	Disinfectant Spray Plus	June 2005
NEx Systems	NEx-Zyme Plus	April 2005
Organic Compounds	Power Plus Powder	August 2003
Plus Manufacturing	Procyon	January 2006
Polymer Concepts	Carpet Guard Plus	October 2005
Polymer Concepts	Encapsoil Guard	October 2005
Polymer Concepts	SSR Extraction	October 2005
Portion Pae	1207 Steam Extraction	May 2004
Prochem	All Fiber Rinse	January 2004
Prochem	CSE/Rombus Cpt Clean	April 2005
Prochem	Olefin Deep Clean S103	January 2004
Prochem	Olefin Preclean E827	January 2004
Prochem	ProCaps	June 2005
Prochem	ProCaps Later	October 2005
Prochem	Ultrapae TrafficClean	January 2004
Prochem	Ultrapae PreTreat S903	January 2004
ProLink	All Purpose Carpet Spotter	October 2005
ProLink	Professional Coffee Spray	October 2005
ProLink	Spin Shield	October 2005
Racine Industries	Host Extra Extractor Sponges	May 2004
Racine Industries	Host Spot Zapper Extractor Sponges	May 2004
Ramsey Company	Kil Odor Enzyme Spotter	February 2004
Ramsey Company	Professional General Purpose Carpet Spotter	March 2004
Ramsey Company	Rinsoft	February 2004



Tandus

Monterey C&A Crossley

Approved Cleaning Products - HWE Pre-Spray

P.O. Box 1447, Dalton, Georgia 30722-1447
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CLEANING PRODUCTS - PRE-SPRAY FOR HOT WATER EXTRACTION

Manufacturer	Product	Date
R.E. Whittaker	Crystal Dry (CD-1)	October 2005
R.E. Whittaker	Crystal Dry RTU	October 2005
R.E. Whittaker	Crystal Dry Extra (CDX-2)	October 2005
R.E. Whittaker	Crystal Extract (CEP-3)	October 2005
R.E. Whittaker	Crystal Odor Pro (COP-6)	October 2005
R.E. Whittaker	Crystal Pain, Oil, Grease Remover (CPOG-7)	October 2005
R.E. Whittaker	Crystal Red Stain Plus (CRS-5)	October 2005
R.E. Whittaker	Crystal Spotter (CS-4)	October 2005
Renew Systems, Inc.	NuVac Vacuum Enhance Prespray Solution	April 2005
Renown	Sanitizing Extraction / Prespray Cleaner	June 2004
Renown	Carpet Extraction Cleaner	April 2004
Renown	Carpet Rinse & Neutralizer	April 2004
Renown	Low Moisture Prespray	June 2004
Renown	Multi-Enzyme Spotter & Deodorizer	June 2004
Renown	Oxy-Triple	June 2004
Scout Systems	Poly Wash	January 2005
Scout Systems	Porgress-A-Clean	January 2005
Scout Systems	Reach Deep	January 2005
Scout Systems	UnDo	January 2005
Scout Systems	Troubleshooter	January 2005
Scot Laboratories	FoamDry	February 2004
Scot Laboratories	PowerMax	September 2003
Scot Laboratories	PrimeTime	September 2003
Scot Laboratories	Instant Suds	March 2005
Scot Laboratories	Performance Balanced Extraction Cleaner	March 2005
Scot Laboratories	Performance Balanced Pre-Spray	March 2005
ServiceMaster	FiberFresh Crystal Care	September 2003
Spartan Chemicals	Contempo V	February 2004
Spartan Chemicals	Green Solutions Carpet Cleaner	October 2003
Super All Products	Cleaner, Degreaser, Dispersant	October 2004
Super All Products	Carpet & Fabric Cleaner	October 2004
Super All Products	Super All	October 2004
3M	Liquid Stain Remover	September 2003
Tonka Mills	Nylac Carpet Cleaner	May 2006
Triple S	Solvent Spot Remover	April 2005
Triple S	Heavy Duty Carpet Stain Remover	April 2005
Triple S	Carpet Spot Wipes	April 2005
Triple S	Bio-Enzymatic Spotter	April 2005
Triple S	Carpet Rinse Plus	April 2005
Triple S	Enz-Odor II (Cherry / Almond)	April 2005
Triple S	Enz-Odor II (Pleasant Scent)	April 2005
Triple S	Extended Care	April 2005
Triple S	Fiber-All	April 2005
Triple S	Triple	April 2005
VonSchrader *	BeFORE Traffic Lane Cleaner	August 2004
VonSchrader *	Anti-Resoil Carpet Detergent	August 2004
Waxie	FiberCare II	December 2003
Windsor	Red Carpet - Rombus Carpet Cleaner	April 2005
Windsor	Red Carpet - Super Conditioning Rinse	April 2005
Windsor	Red Carpet - Wool & Natural Fiber Cleaner	April 2005
Zoro	Longevity II	January 2005

ABSORBENT COMPOUNDS

Manufacturer	Product	Date
Racine Industries	Host SJ Dry Extraction Sponges	April 2004
Racine Industries	Host Extra-Zapper Sponges	April 2004

*The chemistries are required to be used as a system utilizing VonSchrader equipment.

C&A evaluates chemistry that may be used as a prespray only! C&A does not advocate the use of any solution which is added to the extractor rinse tank.

The above listed chemistry has been evaluated for the listed criteria only. No evaluation of cleaning efficacy has been performed.

All cleaning agents shall have the following characteristics:

- Contain NO optical brighteners.
- Shall NOT dry with a sticky or oily residue and must be resoil neutral. Should not contain d'limonene or any lauryl sulfate derivative.
- Have a pH between 4 and 9.
- Should NOT damage nylon face yarn or remove / mute color.
- Should not contain a bleaching agent.
- May not alter fiber color in any way.
- Must be used as a Prespray only, followed by a clear water rinse.



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Monterey C&A Crossley

Approved Cleaning Products - Low Moisture

P.O. Box 1447, Dalton, Georgia 30722-1447
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CLEANING PRODUCTS - LOW MOISTURE CLEANING		
<i>Manufacturer</i>	<i>Product</i>	<i>Date</i>
Adventus Consumer Products	Force Out Stain Remover	September 2003
Aramark	Fiber Fresh Liquid Ultra Clean Extraction Cleaner	December 2003
Buckeye International	Gone	September 2003
Buckeye International	Pathfinder	September 2003
Bullen	NSR Multi-Use	October 2005
Carbonated Solutions	No-Soap Self-Carbonating Carpet Cleaner	November 2003
C&A Floorcoverings	SYON - 5	January 2005
Clean Control Corp	BioTotal Control	January 2005
Cleaning Tech Group	Answer / Paragon	September 2003
CTI	Pro's Choice CPM Carpet Cleaner	December 2004
Dupont	Carpet Prespray and Extraction Cleaner	November 2003
Dupont	Resistech	November 2003
Envirox LLC	Quick Spot	October 2003
Envirox LLC	Carpet Complete	October 2003
Hillyard	Double Down	July 2006
Hillyard	Carpet Prespray & Extraction	July 2006
James Varley Solutions	Release	October 2005
Johnson Diversey	Butchers Head Start Carpet Prespray	December 2003
Johnson Diversey	Butchers Percolator (GP & Coffee Remover)	December 2003
Majestic	OxyAction	June 2004
Majestic	Resoil Resistant Prespray	June 2004
Majestic	Triple Action Spotter / Deodorizer	April 2004
Matrix	Super En Cap Soil Plus	April 2004
NEx Systems	NEx-Zyme Plus	April 2005
Polymer Concepts	Encapsoil Guard	October 2005
ProChem	CSE/Rombus Cpt Clean	April 2005
ProChem	ProCaps	June 2005
ProChem	ProCaps Later	October 2005
Pro-Link	Spin Shield	August 2005
Pro-Link	All Purpose Carpet Spotter	August 2005
Pro-Link	Professional Coffee Spray	August 2005
Ramsey Company	Kil Odor Enzyme Spotter	February 2004
Ramsey Company	Professional / General Purpose Carpet Spotter	March 2004
Ramsey Company	Rinsoft	February 2004
R.E. Whittaker	Crystal Dry (CD-1)	October 2005
R.E. Whittaker	Crystal Dry RTU	October 2005
R.E. Whittaker	Crystal Dry Extra (CDX-2)	October 2005
R.E. Whittaker	Crystal Extract (CEP-3)	October 2005
R.E. Whittaker	Crystal Odor Pro (COP-6)	October 2005
R.E. Whittaker	Crystal Pain, Oil, Grease Remover (CPOG-7)	October 2005
R.E. Whittaker	Crystal Red Stain Plus (CRS-5)	October 2005
R.E. Whittaker	Crystal Spotter (CS-4)	October 2005
Renew Systems, Inc.	NuVac Vacuum Enhance Prespray Solution	April 2005
Renown	Multi Enzyme Spotter / Deodorizer	April 2004
Renown	Low Moisture Prespray	June 2004
Renown	Multi-Enzyme Spotter & Deodorizer	June 2004
Renown	Oxy-Triple	June 2004
Scot Laboratories	PrimeTime	October 2003
Scot Laboratories	FoamDry	February 2004
Scot Laboratories	Instant Suds	March 2005
Scot Laboratories	Performance Balanced Extraction Cleaner	March 2005
Scout Systems	Poly Wash	January 2005
Scout Sytems	Progress-A-Clean	January 2005
Scout Systems	Troubleshooter	January 2005
3M Scotchgard	Extraction Cleaner	September 2003
Spartan Chemical Company	Contempo V	February 2004
Triple S	Solvent Spot Remover	April 2005
Triple S	Heavy Duty Carpet Stain Remover	April 2005
Triple S	Extended Care	April 2005



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Approved Cleaning Products - Low Moisture

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CLEANING PRODUCTS - LOW MOISTURE CLEANING		
<i>Manufacturer</i>	<i>Product</i>	<i>Date</i>
Tonka Mills	Nylac Carpet Cleaner	May 2006
Waxie	FiberCare II	December 2003
Whiteley Industries	Fabrisan	July 2003
Whittaker	Crystal Dry Extract Carpet Pre Spray	March 2005
Whittaker	Crystal Red Stain Plus	March 2005
Windsor	Red Carpet - Rombus Carpet Clean	April 2005
Zorro Industries	Longevity II	January 2005

ABSORBENT COMPOUNDS		
<i>Manufacturer</i>	<i>Product</i>	<i>Date</i>
Racine Industries	Host SJ Dry Extraction Sponges	April 2004
Racine Industries	Host Extra-Zapper Sponges	April 2004

TOWELETTES / WIPES		
<i>Manufacturer</i>	<i>Product</i>	<i>Date</i>
Majestic	Triple Action Wipes	April 2005
Renown	Multi Enzyme Spotter / Deodorizer Wipes	April 2004
Triple S	Carpet Spot Wipes	December 2003

C&A does not advocate the application of any cleaning solution via the rinse than of an extraction machine.

The above listed chemistry has been evaluated for the listed criteria only. No evaluation of cleaning efficacy has been performed.

All cleaning agents shall have the following characteristics:

- Contain NO optical brighteners.
- Shall NOT dry with a sticky or oily residue and must be resoil neutral. Should not contain d'limonene or any lauryl sulfate derivative.
- Have a pH between 4 and 9.
- Should NOT damage nylon face yarn or remove / mute color.
- Should not contain a bleaching agent.
- May not alter fiber color in any way.
- Must dry to a crystalline structure that readily shatters for effective removal via dry vacuuming.

C&A / TANDUS approved service partners, equipment manufacturers and chemical manufacturers.

CertiCARE Partners:

BANE-CLENE...800.428.9512

Environmentalists...800.328.7719

ServiceMaster Clean (Global, Alliance Accts)...866.363.2532
(Franchise headquarters)...800.633.5703

Chemical Manufacturers:

BANE-CLENE...800.428.9512

Butchers...800.321.2583

Chemspec...800.428.9512 (distributor)

Clausen Carpet Solutions...800.523.4962

Groom Industries...800.428.9512 (distributor)

Misco (Majestic)...800.548.4568, 610.334.1152

R.E. Whittaker...800.422.7686

ReNew Systems...800.722.2641

Scout Systems...888.433.6034, 609.932.5256

SuperAll...337.501.9277, 281.351.4800

VonSchrader...800.626.6916

Waxie...800.432.7140

Equipment Manufacturers:

Advance/ Nilfisk...763.745.3876

BANE-CLENE...800.428.9512

Castex/Nobles...800.903.3364

North American Cleaning Equipment...800.387.3210

NSS...800.261.3502

Pacific Floor Care...800.968.1332

Pro-Team...877.759.5949

R.E. Whittaker...800.422.7686

Windsor...800.444.7654

John J. Garger, Product Care Manager

C&A / TANDUS Group

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Phone: 800.241.4902 ext.2120



FLOORCOVERINGS
A TANDUS™ GROUP COMPANY

CARE & MAINTENANCE OF POWERBOND® (Periodic Cleaning)

C&A Floorcoverings' Powerbond products provide end-users with highly durable, easily maintainable products. An organized, fully implemented maintenance plan will ensure many years of performance from Powerbond products and can reduce product lifecycle costs to make them one of the most affordable floorcovering options available.

For enhanced performance of your new installation, C&A Floorcoverings has evaluated several methods of periodic cleaning and has selected the optimum cleaning system for Powerbond products. Based on numerous scientific evaluations involving both field and laboratory investigations, C&A Floorcoverings recommends the use of water extraction for the maintenance of Powerbond products. Water extraction, performed properly on a regular basis, will reduce soil levels and maintain an acceptable appearance level, thus extending product life.

While there is no standardized cleaning frequency for all facilities, C&A recommends low moisture extraction before Powerbond becomes excessively soiled. Some areas may require monthly extraction, while limited-use areas may only require a yearly extraction. Ultimately, localized use, soiling conditions, and the quality of daily maintenance will determine the frequency of periodic cleaning.

The following should be considered when cleaning Powerbond products:

1. Operate heating, ventilation, and air conditioning (HVAC) system during periodic cleaning.
2. Utilize air movers in conjunction with HVAC operation to expedite drying.
3. Limit traffic on wet Powerbond to limit soil tracking and soil wicking.
4. Never use any product that contains optical brighteners or bleaching agents.
5. Select cleaning products with a pH of 4 – 9. Select cleaning products that do not leave oily residues. (Evaluate residue by diluting and pouring the solution into a pie plate. Place the pie plate in direct sunlight and allow evaporation. Evaluate un-evaporated residue for oily or sticky consistency.)
6. Request a listing of approved products from C&A that have been evaluated for re-soil potential.
7. Always keep Material Safety Data Sheets (MSDS) available during cleaning.
8. Never use detergent concentrations stronger than those recommended by the detergent manufacturer.

Following is the recommended periodic cleaning procedure for the maintenance of Powerbond products:

- Pre-vacuum the area to be cleaned, taking care to remove as much dry particulate (insoluble soil) as possible. (Water extraction is performed to remove water-soluble soil that cannot easily be removed with daily vacuuming. Detergents used in the extraction cleaning process attempt to emulsify these non-water-soluble particulates, thus reducing cleaning effectiveness.)
- Following thorough vacuuming, apply an alkaline pre-spray detergent or Syon-5™ directly to the face fiber. Alkaline detergents typically require 8-10 minutes of dwell time to begin emulsifying and suspending soil. Extracting the solution before allowing adequate dwell time will reduce cleaning effectiveness.
- Agitate the area with a pile rake or mechanical agitation to assist the detergent solution in lifting soil from the fiber. (NEVER USE A ROTARY BONNET for mechanical agitation.)
- Extract the detergent solution and attached soil particles using an extractor with fresh water only. Do not use a detergent solution in the extractor tank.
- After thoroughly rinsing, continue to extract the area using “dry” strokes (no water injection) until suitable moisture removal is attained. Under no circumstance should any Powerbond product be allowed to remain wet for more than 12 hours.

Other considerations: It is not uncommon in heavy soiling situations for soil to reappear within 24-hours following drying. These instances almost always can be attributed to excess dry soil left in the pile fiber prior to applying pre-spray. If soiling reoccurs, vacuum the area using multiple vacuum passes and repeat the above procedures. If soiling returns after the second extraction, contact C&A Floorcoverings for additional cleaning suggestions.

Soiling that reoccurs more than 24-hours following cleaning often may be attributed to detergent residues that were not adequately rinsed. Evaluate detergency by pouring water onto pile fiber and briskly agitating with a spotting brush. Look for foaming or other signs of detergent residue. If detergent is present, continue to extract (rinse) these areas until detergent is thoroughly rinsed. In severe situations, an acid rinse may be applied as a pre-spray or added to the extractor rinse tank to neutralize detergent residues.

Some primary cleaning methods, such as the Whittaker System or Von Schrader System, have been proven effective in maintaining desired appearance levels and improving the quality of overall maintenance of Powerbond. These interim methods should be used to extend the time between extractions and not as a replacement for water extraction. However, C&A requires a written pre-approval for each exception to the use of extraction.

For additional information on the cleaning of Powerbond products, contact C&A Floorcoverings' Care Manager at 800-241-4902 Ext. 2120.



FLOORCOVERINGS
A TANDUS™ GROUP COMPANY

PREVENTATIVE CLEANING PROGRAM FOR POWERBOND® PRODUCTS

- 1) Pre-Vacuum all Powerbond with 4-8 cycles (8-16 strokes) utilizing a vacuum cleaner which meets or exceeds C&A minimum specifications.
- 2) Pre-Spot any gum, tar, oil, etc. with a quality dry, volatile solvent such as SAF-T-SOLV (Bane-Clene). Pre-Spot any coffee, tea, etc. with Spray & Go (Chemspec) or SYON-5 (C&A).
- 3) Pre-Spray a 12' x 12' area with a quality prespray such as SYON-5 (C&A) or PREFACE (Bane-Clene) diluted according to manufacturers recommendations. The product should have a pH between 6-8, contain NO optical brighteners, sodium lauryl sulfate, ammonium lauryl sulfate, or other adverse chemistry.
- 4) Agitate utilizing a R.E. Whittaker GLS machine (or equivalent). Allow a minimum of 8-12 minutes dwell time. Do NOT allow the prespray to dry prior to extraction.
- 5) Hot water extract area with an extraction machine which meets or exceeds C&A minimum specifications.
- 6) Utilize hi-velocity drying fans to expedite the drying process. Be sure to have the HVAC system set at 72 °F with the fan in the ON position.

RESTORATIVE CLEANING PROCEDURES FOR POWERBOND® PRODUCTS

The following steps are for cleaning heavily soiled, inadequately maintained soft-surface floorcoverings. An adequate, preventative appearance maintenance program would eliminate the need to restore Powerbond or any soft-surface floorcovering.

THESE PROCEDURES ARE NOT INTENDED TO TAKE THE PLACE OF A NORMAL, PREVENTATIVE MAINTENANCE PROGRAM.

1. Thoroughly dry vacuum the area to be cleaned utilizing approved equipment as noted in the "CARE" brochure. A minimum of 7-10 vacuum cycles (14-20 passes) is required to remove dry, insoluble, particulate matter.
2. Apply a pre-spray (see "CARE" brochure) to a 12' X 12' area. The pre-spray should be diluted according to the manufacturer's recommendations with hot water.
3. Agitate the pre-sprayed area with a Cylindrical Brush tool (Whittaker GLS, or equivalent). Do NOT utilize a rotary buffer or other hard surface equipment.
4. Allow a 10 – 15 minute dwell time, while not allowing the pre-sprayed surface to dry prior to extraction.
5. Proceed to extract utilizing approved equipment (see "CARE" brochure) with Clear, Hot Water in the solution tank. Continue to rinse until soiling is removed and recovered solution is clear. It is imperative to limit all foot traffic until carpet is dry.
6. Speed Dry the cleaned areas as quickly as possible utilizing High Velocity Air Movers and/or Dehumidifiers. It is imperative that the HVAC system is set in the "on" position maintaining constant air recirculation at about 70° – 74° Fahrenheit.

Please be aware that this process is both time consuming and, usually, very costly. The attempt to restore any product in this condition may not provide a newly installed appearance. Multiple restorative attempts may be necessary before satisfactory results are achieved. Also, there are times when satisfactory results are not obtainable regardless of any and all attempts at restoration.



Monterey C&A Crossley

Spot Removal Chart

Directions: Prevacuum prior to application of any product. Cleaning solutions are listed in the order they should be applied to the spot. Select solution #1, apply to spot, agitate and allow 10 minutes dwell time. Extract with a spot removal extractor. Continue using solution #1 as long as there is improvement. If no improvement is noticeable, move to solution #2. Continue using solution #2 as long as there is improvement or until spot is removed. Etc. *Crystal Dry Extra (Rewhittaker) may be substituted for Syon-5 (Tandus), except for Urine, Feces, Vomit or Milk Contamination.

Syon - 5 (Tandus) *Warm Water Rinse* *Saf-T-Solv (Bane-Clene)* *Isopropyl Alcohol* *Acetone* *Spray n' Go (Chemspec)* *Hot Transfer (Red Out)* *Brown-Out (Bane-Clene)* *Oxy Action (Majestic)*

Adhesive (seam sealer)		3	2		1				
Asphalt Sealer	3	4	1	2					
Asphalt Track-off	3	4	1	2					
Beet Juice	1	5		2		3	4		
Betadine	3	4				1	2		
Blood	3	2,5		4					1
Butter	3	4	1	2					
Calcium Chloride (de-icer)	2	3						1	
Candle Wax		3	1	2					
Carbon (black)	2	4	3	1					
Catsup	1	2,5		3		4			
Charcoal (activated)	1	4	2	3					
Chewing Gum		3	1		2				
Chocolate	2	3	4	1				5	
Clay	2	3						1	
Coffee	1	3				2			
Cola	2	4	3	1					
Copier Toner			2	1					
Correction Fluid	3	4	2	1					
Cosmetics	3	4	1	2					
Cough Medicine / Syrup	1	2		4				3	
Crayon	2	4	1	3					
Cream	1	2		3					
Dirt (general soil)	1	2,5	3					4	
Feces	1	2	3	5				4	
Fingernail Polish	3	3,5	2		1			4	
Fingerprint Dust	2	3	4		1				
Food	1	2,4	3						
Food Coloring	1	2	3	4		6	7	5	
Food Dye	1	2	3	4		6	7	5	
Food Stains (greasy)	3	4	2	1				5	
Fruit / Fruit Juice / Punch	1	2	3	4		6	7	5	
Furniture Polish	2	3,5	4		1				
Gatorade®	1	2	3	4		6	7	5	
Glue (adhesives)	3	4	2		1				
Glycerin	2	3,5	4	1					
Grease	3	4	2	1					



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Gum	2	3	1						
Ice Cream	1	2	3	4					
Ink	3	4	2	1					
Iodine	1	2		3		4	5		
Jam / Jelly	1	2						3	
Kool-Aid®	1	2	3	4		6	7	5	
Lacquer		3	2		1				
Latex Caulk	1	2	3	5				4	
Lip Gloss / Lipstick	2	3	1	5				4	
Lotion	2	3	4	1					
Mayonnaise	2	3	4	1					
Mildew / Mold	Contact a Mold Remediation Specialist								
Milk	1	2		3					
Mustard	1	2,5				3	4		
Newsprint	1	2	4	3					
Oil	3	4	2	1					
Ointment	2	3	4	1					
Olives	2	3	4	1					
Paint	3	4	2		1				
Peanut Butter	2	3	4	1					
Pudding	2	3	4	1					
Pumpkin	1	2	3					4	
Rust *Rust Subtractor	2	3	4		1			5	
Salad Dressing	2	3	4	1				5	
Saline Solution	1	2	3					4	
Shoe Polish	3	4	2		1				
Soup	1	2	3	4					
Spaghetti Sauce	1	2	3	4					
Syrup	1	2	3					4	
Tomatoes / Sauces	1	2	3	4					
Unknown	2	3	4		1	6	7	5	
Urine	1	2							
Vaseline	2	3	4	1					
Vomit	1	2,6	3	4					5
Wax, Floor	4	3,5			1	2			
Wine	1	2	3			5	6	4	
Yellowing	3	4			2			1	

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FLOORCOVERINGS
A TANDUS™ GROUP COMPANY

COMMON POWERBOND CLEANING CHALLENGES

No other flooring material looks, lasts, or performs like Powerbond. Premium fibers provide excellent cleanability. State of the art soil and stain treatments provide added insurance against appearance degradation. Superior construction attributes allows easier soil removal with vacuuming and vinyl backing reduces drying time to less than half that of typical carpet. With proper cleaning Powerbond should provide many years of faithful service. However, improper cleaning can present certain maintenance challenges that can easily be corrected. Following are some of the most common correctable cleaning challenges associated with Powerbond maintenance:

Recurring soil after cleaning - Often as cleaning takes place, the cleaning results appear to be satisfactory. However, following drying soil seems to reappear. Often this can be attributed to dry soil that has been carried to the surface of the vinyl backing by the water. As drying occurs, this soil “wicks” back to the surface with the evaporation process. Repeated cleanings will reveal the same result. Thorough vacuuming should be performed prior to cleaning to remove dry soil. Thorough soil removal prior to cleaning can lessen the effect of soil wicking. By limiting moisture with the use of a low moisture extraction system such as R.E. Whittaker GLS/Crystal Dry System, following complete drying, wicked soil can be extracted from the surface.

Resoiling following cleaning - Resoiling is different from recurring soil in that resoiling takes places over a number of days or weeks following cleaning rather than immediately following drying. Often resoiling can be attributed to detergent residues left behind during cleaning. Detergents, by design, attract soil. By leaving detergent in Powerbond after cleaning, detergents rapidly attract soil. To limit this occurrence, C&A Floorcoverings discourages the use of detergent in the extractor rinse tank. Detergents only should be used as a prespray and should be rinsed with an extractor using fresh water only.

Spots that return - In most instances, spots that return can be attributed to incomplete removal of the original spill. These spills wick up from the vinyl backing during drying. This wicking is very different from wicking that occurs in traditional carpet, where synthetic latex backing absorbs spills and releases content when moisture is introduced. Many spills may leave oily, sugary, or sticky residues that may attract additional soil. Incomplete removal of these residues may encourage new soiling rather than a reoccurrence of the original spill. Some spotting solutions may encourage additional soiling because of oily residues used in the formulation. Most spotting agents are very good cleaners, but never should be used for wide area cleaning and always should be thoroughly rinsed to limit resoiling potential.

Inability to remove spots - Powerbond offers the finest soil and stain treatments available, but no flooring product is stain-proof. In addition, there is no single spot removal product that can be used universally to remove all spills. If available spot removal solutions are ineffective in removing a spill, select other solutions on the spot chart or contact C&A Floorcoverings for assistance.

Yellowing - Yellowing can be caused by a number of chemical and environmental factors. In general terms, when yellowing has occurred, apply an acid rinse, first, such as white vinegar. Some yellowing caused by heating sources, environmental pollutants, or improper cleaning agents may not easily be reversed.

Color Fading/Yellowing - Some cleaning agents may affect dyes causing a gradual loss of color over an extended period. Optical brighteners never should be used in any cleaning solution used in Powerbond maintenance. Optical brighteners can cause Powerbond color to fade or yellow and the use of any cleaning solution containing brighteners may affect warranty coverage.

Loss of Color in small areas - Color loss in limited areas almost always may be attributed to bleaching or oxidizing agents used in facility. Some bleaching agents may be latent intruders, such as acne medications, that require several months and moisture to be activated. Others may affect dyes immediately. Typically, these color changes are permanent and cannot be reversed.

Soiling along walls/baseboards - Some facilities exhibit heavy soiling around baseboards, under doors, or adjacent to areas of constant airflow. This condition, called filtration soiling, is caused by airborne particles that are deposited on the surface of Powerbond as a result of concentrated airflow. This soil accumulates along walls because of exit sources under walls.

Color Loss along walls/baseboards - Color loss along baseboards can be attributed to a number of factors including wall cleaners, window cleaners, or aerosol sprays that enter the air stream as a result of convection. However, the most common cause of color loss along baseboards is through the application of pesticides. Some pesticides may require weeks or even months to produce a color change. This may cause permanent damage.

Asphalt track-off - Various sealers require different approaches for adequate removal. As a first step, a product such as Saf T Solv (Bane Clene) should be utilized. Several applications and agitation may be necessary.

Optical Brighteners - (See color fading/yellow) Optical brighteners should never be used on Powerbond products

Bonnet Cleaning - Bonnet cleaning should never be used on Powerbond products.

Blood - To prevent setting the stain, always use cold water on blood spills. For stubborn bloodstains, apply an environmentally friendly rust remover.