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## Maintenance Recommendations for Resilient Flooring

### **Medintech® and Medintone™ Homogeneous Sheet Flooring with Diamond 10® Technology MedinPure™ PVC-free Homogeneous Sheet Flooring with Diamond 10™ Technology**

Following are guidelines for maintaining Armstrong Flooring Luxury Flooring with Diamond 10 Technology coating. They are based on general experience using established methods and cleaning materials. It is important that these guidelines are read carefully. Ultimately, local site conditions will determine what specific maintenance procedures and frequencies are needed. It is the responsibility of the maintenance provider to establish the maintenance program(s) that meet the demands of the space(s) and needs of the facility.

All resilient floor coverings require maintenance. How frequently the floors must be maintained depends largely on the factors described below. Following regular and well-planned maintenance programs protects the floor by reducing wear, preserves the floor's attractive appearance and ultimately increases its service life.

#### **How to Determine/Tailor A Maintenance Program**

Before establishing a maintenance program, there are several factors which must be considered in order to determine the most appropriate, cost-effective methods to use. It is critical that the maintenance methods for each floor and area be chosen only after careful evaluation and regard to the following:

- End User's Expectations  
What is considered an acceptable level of appearance by the owner, customers, staff or end-user?  
What is the desired gloss (high or low gloss)?
- Type of Facility & Location of Flooring  
Entryways, lobbies, classrooms, checkout lines and pivot-point areas may require more frequent cleaning than lower traffic areas in other parts or upper levels of the building.
- Volume and Type of Traffic and Soil  
Traffic types and volumes in entryways and corridors will vary greatly from those found in classrooms and checkout lines. Dirt and grit carried in from the outside can differ significantly from the soils and chemical spills found in a laboratory or emergency room.
- Color/Design of Flooring  
Color and pattern can have a significant impact on a floor's appearance and, when properly chosen, may help mask soiling and staining. Mid-tones are better choices than light or dark colors. Busier/high contrast patterns will hide better than solid/monolithic ones.
- Resources/Equipment/Chemicals/Personnel/Budget  
Are well-trained maintenance personnel available?  
Are the appropriate pieces of equipment (scrubbers, buffers, mops, pads, etc.) available?  
Are the appropriate chemicals available?  
What is the budget?
- Special Traffic/Footwear  
Areas subjected to frequent rolling loads provide a different environment than a children's play area or corridor in an elementary school.

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## Maintenance Recommendations for Resilient Flooring

### **Preventive Care and Maintenance**

Controlling grit and soil is crucial to prolonging the attractive appearance of any floor. Grit or soil is any material—including dirt, stones, sand and clay—that is deposited onto the floor by normal commercial traffic. The best way to control grit is by using appropriate and well-maintained walk-off mats. Studies over the years have shown that properly installed and properly maintained entrance matting systems significantly reduce the amount of soil and water tracked into the building. Less soil means reduced wear, longer appearance retention, increased service life and reduced maintenance costs.

Recommended walk-off mats should:

- Have a high-friction, open surface design to knock grit particles from the bottoms of shoes and then trap the particles.
- Be used at every entrance, inside and outside, should be at least as wide as the doorway and 8' to 12' long.
- Have a backing that won't stain the floor.
- Be cleaned regularly, vacuumed, shaken and/or hosed off frequently.

While walk-off mats will retain a substantial amount of this grit and soil, some will still find its way into the building. Regular vacuuming, sweeping and dust-mopping will help to further control this type of grit.

Furniture Rests (feet, glides, casters, etc.)

Proper selection and care of furniture rests is important in the maintenance and appearance retention of all types of floor coverings. Following are some guidelines to consider:

- The contact area should be large enough to distribute the load evenly without damaging the floor.
- The contact area should be smooth and flat to provide full contact and free of small protrusions, irregularities, roughness, depressions, mold lines, embedded dirt, and grit, etc.
- All edges should be slightly rounded to prevent damage if briefly turned on edge.
- Rests should be manufactured from non-staining materials.
- Rests should be properly maintained. Worn, damaged and missing furniture rests should be replaced.

Furniture, appliances, equipment, etc., should be properly leveled so that all rests are always fully and firmly on the floor.

Other Maintenance Tips for Best Results

- Newly installed flooring should not be exposed to rolling load traffic for at least 72 hours after installation to allow setting and drying of the adhesive.
- If it becomes necessary to move any heavy fixtures or appliances over the flooring on casters or dollies, the flooring should be protected with 1/4" or thicker plywood, hardboard or other underlayment panels. If other on-site work is continuing, consider using a protective covering such as plain, undyed Kraft paper to guard against damage to the new floor.
- On heat welded seams, apply a thin, even application of a commercially available, high-quality multi-purpose top coating such as Armstrong Flooring S-762 Weld Rod Coating Pen. When using one of the No Polish Options, it may be necessary to periodically recoat the welded seam.
- Do not wet wash, machine scrub, or strip the floor for at least five days after installation. This is to prevent excess moisture from interfering with the adhesive bond and/or seam treatments.
- When performing wet maintenance, always use proper signage and prohibit traffic until the floor is completely dry.
- Do not use excessive amounts of liquid during maintenance.
- Do not use brown or black pads, equivalent brushes or stiff-bristled, highly abrasive brushes on any Armstrong resilient flooring.

Maintenance Recommendations for Resilient Flooring

**Polish Option**

A. Initial Maintenance – Immediately After Installation

1. Sweep, dust mop or vacuum the floor thoroughly to remove all loose dust, dirt, grit and debris.
2. Remove any dried adhesive residue with a clean, white cloth dampened with mineral spirits, carefully following warnings on the container.
3. To promote polish wet out and adhesion, the floor must be thoroughly scrubbed with a properly diluted neutral detergent solution (such as Armstrong S-485 Commercial Floor Cleaner), using a single disk swing machine (300 rpm or less) equipped with a 3M™ blue pad scrubbing pad or equivalent brush.

**Note: If polish does not bond and wet out or if germicidal chemicals do not wet out, the floor must be thoroughly scrubbed with a properly diluted sodium hydroxide-containing floor stripper such as Spartan Chemical Corporation's Square One®, using a rotary machine (300 rpm or less) equipped with a 3M™ blue pad scrubbing pad or equivalent brush. Strippers should have a formulated sodium hydroxide (NaOH) concentration of 1% by weight or greater. Dilution rates should not exceed 1:4.**

**NOTE: Subsequent stripping of previously applied polish does not require the use of sodium hydroxide-containing strippers.**

Recommended Floor Strippers Containing Sodium Hydroxide\*

Manufacturer	Product
Spartan Chemical Company	Square One®
SealedAir	Bravo® Heavy Duty Stripper Pro Strip® Heavy Duty Stripper Attac® Floor Stripper Floor Science® Stripper
3M™	3M Floor Stripper
Ecolab®	Bright Blast Floor Stripper
Betco Corporation	Geraldine Floor Stripper

*\*Strippers recommended for Medintone™, Medintech®, and MedinPure™ with Diamond 10™ Technology are not suitable for use on linoleum.*

4. Remove solution using a wet vacuum or mop.
5. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.
6. Apply 3 to 5 coats of high-quality commercial floor polish, such as Armstrong® S-480 Commercial Floor Polish. In areas where the flooring will be exposed to heavy traffic and/or staining agents, the application of 1 or 2 coats of a stain resistant sealer (such as Armstrong® S-495 Commercial Floor Sealer) prior to the application of polish is recommended.

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### B. Preparation for Commercial Traffic – 5 Days or More After Installation

1. Scrub once with a neutral floor cleaner and a blue scrub pad. This will activate the surface to enable polish wet out and adhesion. As with all polished floors, floor performance equals the performance of the polish.
2. Apply 3 to 5 coats of high-quality commercial floor polish, such as Armstrong Flooring S-480 Commercial Floor Polish. In areas where the flooring will be exposed to heavy traffic and/or staining agents, the application of 1 or 2 coats of a stain resistant sealer (such as Armstrong Flooring S-495 Commercial Floor Sealer) prior to the application of polish, is recommended. Damp mopping of the floor should be performed on a regular or daily basis, depending upon traffic and soil levels in the area. Use a properly diluted neutral (pH 6 to 8) detergent solution such as Armstrong S-485 Commercial Floor.

### C. Daily / Regular Maintenance

1. Sweep, dust mop or vacuum the floor daily to remove dust, dirt, grit and debris that can damage the floor and become ground into the surface.
2. Spot mop as needed. Any spills should be cleaned up immediately.
3. Damp mopping of the floor should be performed on a regular or daily basis, depending on traffic and soil levels in the space. Use a properly diluted neutral detergent solution, such as Armstrong S-485 Commercial Floor Cleaner.

### D. Periodic Maintenance

1. Sweep, dust mop or vacuum the floor daily to remove dust, dirt, grit and debris that can damage the floor and become ground into the surface.
2. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.
3. If needed, additional coats of floor polish may be applied at this time. If there is a sufficient base of polish remaining (3 to 5 coats), buff, spray buff or burnish to restore gloss.

### E. Restorative Maintenance – Stripping of Existing Floor Finish/Polish

1. Mix stripping solution to the appropriate dilution, depending on floor finish build-up.
  - Cordon off areas to be stripped.
  - Use proper signage and prohibit traffic until restorative maintenance procedures are completed.
  - Apply liberal amounts of solution uniformly on floor with a mop.
  - Let stripping solution soak for the appropriate amount of time recommended by the stripper manufacturer.
  - Keep areas to be stripped wet. Rewet if necessary.
2. Mix stripping solution to the appropriate dilution, depending on floor finish build-up.
3. Remove dirty stripping solution with a wet vacuum or mop. TIP: Drizzling fresh, clean rinse water onto the dirty stripping solution will assist with more thorough removal.
4. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.

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5. Apply 3 to 5 coats of high-quality commercial floor polish, such as Armstrong Flooring S-480 Commercial Floor Polish. In areas where the flooring will be exposed to heavy traffic and/or staining agents, the application of 1 or 2 coats of a stain resistant sealer (such as Armstrong S-495 Commercial Floor Sealer) prior to the application of polish, is recommended.

### **Low Maintenance Option: No Polish – No Buff**

#### **Use of Disinfectant/Germicidal Cleaners on the Diamond 10 Technology Coating**

Sweep, dust mop or vacuum the floor thoroughly to remove all loose dust, dirt, grit and debris.

Remove any dried adhesive residue with a clean, white cloth dampened with mineral spirits, carefully following warnings on the container. 3. Damp mop the floor with a properly diluted neutral (pH 6 to 8) detergent solution such as Armstrong Flooring S-485 Commercial Floor Cleaner.

If necessary, scrub the floor using a rotary machine or auto scrubber with a properly diluted neutral detergent solution (such as Armstrong Flooring S-485 Commercial Floor Cleaner) and the appropriate scrubbing pad or brush (aggressiveness equivalent to 3M™ red pad for light scrub, 3M™ blue or equal for a deep scrub). Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.

#### **B. Daily / Regular Maintenance**

1. Sweep, dust mop or vacuum the floor daily to remove dust, dirt, grit and debris that can damage the floor and become ground into the surface.
2. Spot mop as needed. Any spills should be cleaned up immediately.
3. Damp mopping of the floor should be performed on a regular or daily basis, depending upon traffic and soil levels in the area. Use a properly diluted neutral detergent solution such as Armstrong Flooring S-485 Commercial Floor Cleaner.

#### **C. Periodic Maintenance**

1. When needed, after sweeping, dust mopping or vacuuming, with a properly diluted neutral detergent solution (such as Armstrong S-485 Commercial Floor Cleaner) and the appropriate scrubbing pad or brush (aggressiveness equivalent to 3M™ red pad for light scrub, 3M™ blue pad or equal for a deep scrub).
2. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.

### **Low Maintenance Option: No Polish – Dry Buff**

#### **A. Initial Maintenance and Preparation for Commercial Traffic**

1. Sweep, dust mop or vacuum the floor thoroughly to remove all loose dust, dirt, grit and debris.
2. Remove any dried adhesive residue with a clean, white cloth dampened with mineral spirits, carefully following warnings on the container.
3. Damp mop the floor with a properly diluted neutral (pH 6 to 8) detergent solution, such as Armstrong Flooring S-485 Commercial Floor Cleaner.

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4. If necessary, scrub the floor using a rotary machine or auto scrubber with a properly diluted neutral detergent solution (such as Armstrong S-485 Commercial Floor Cleaner) and the appropriate scrubbing pad or brush (aggressiveness equivalent to 3M™ red pad for light scrub, 3M™ blue pad or equal for a deep scrub).
5. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.
6. Dry buff (maximum 1500 rpm) with a 3M™ Sky Blue Hi-Performance Burnish Pad 3050 or 3M™ White Super Polish Pad 4100. If a higher gloss is desired, the application of a suitable floor finish is recommended.

### B. Daily / Regular Maintenance

1. Sweep, dust mop or vacuum the floor daily to remove dust, dirt, grit and debris that can damage the floor and become ground into the surface.
2. Spot mop as needed. Any spills should be cleaned up immediately.
3. Damp mopping of the floor should be performed on a regular or daily basis, depending upon traffic and soil levels in the area. Use a properly diluted neutral detergent solution, such as Armstrong Flooring S-485 Commercial Floor Cleaner.

### C. Periodic Maintenance

1. Sweep, dust mop or vacuum the floor daily to remove dust, dirt, grit and debris that can damage the floor and become ground into the surface.
2. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.
3. Dry buff (maximum 1500 rpm) with a 3M™ Sky Blue H-Performance Burnish Pad 3050 or 3M™ White Super Polish Pad 4100. If a higher gloss is desired, the application of a suitable floor finish is recommended.

## **Low Maintenance Option: No Polish – Spray Buff**

### A. Periodic Maintenance

1. Sweep, dust mop or vacuum the floor thoroughly to remove all loose dust, dirt, grit and debris.
2. Remove any dried adhesive residue with a clean, white cloth dampened with mineral spirits, carefully following warnings on the container.
3. Scrub the floor using a rotary machine or auto scrubber with a properly diluted neutral detergent solution (such as Armstrong Flooring S-485 Commercial Floor Cleaner) and a 3M™ blue pad scrubbing pad or equivalent scrubbing brush.
4. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.

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5. Spray buff using a rotary machine (175 to 1000 rpm) with the appropriate pad and spray buff solution.

### B. Daily / Regular Maintenance

1. Sweep, dust mop or vacuum the floor daily to remove dust, dirt, grit and debris that can damage the floor and become ground into the surface.
2. Spot mop as needed. Any spills should be cleaned up immediately.
3. Damp mopping of the floor should be performed on a regular or daily basis, depending upon traffic and soil levels in the area. Use a properly diluted neutral detergent solution such as Armstrong Flooring S-485 Commercial Floor Cleaner.

### C. Periodic Maintenance

1. When needed, after sweeping, dust mopping or vacuuming, machine scrub the floor with a properly diluted neutral detergent solution, such as Armstrong S-485 Commercial Floor Cleaner, and the appropriate scrubbing pad (3M™ red or equal for light scrub, 3M™ blue or equal for a deep scrub) or equivalent brush.
2. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.
3. Spray buff using a rotary machine (175 to 1000 rpm) with the appropriate pad and spray buff solution.

### D. Restorative Maintenance – Stripping

1. Mix stripping solution to the appropriate dilution, depending on floor finish build-up.
  - Cordon off areas to be stripped.
  - Apply liberal amounts of solution uniformly to floor with a mop.
  - Let stripping solution soak for the appropriate amount of time recommended by the stripper manufacturer.
  - Keep areas to be stripped wet. Rewet if necessary.
2. Machine scrub the floor (300 rpm or less) with a scrubbing brush (aggressiveness equivalent to 3M™ blue pad or equal) to break up the polish film. Do not allow stripping solution to dry on the floor.
3. Remove dirty stripping solution with a wet vacuum or mop. TIP: Drizzling fresh, clean rinse water onto the dirty stripping solution will assist with more thorough removal.
4. Thoroughly rinse the entire floor with fresh, clean water. Remove rinse water and allow the floor to dry completely.
5. Spray buff using a rotary machine (175 to 1000 rpm) with the appropriate pad and spray buff solution.