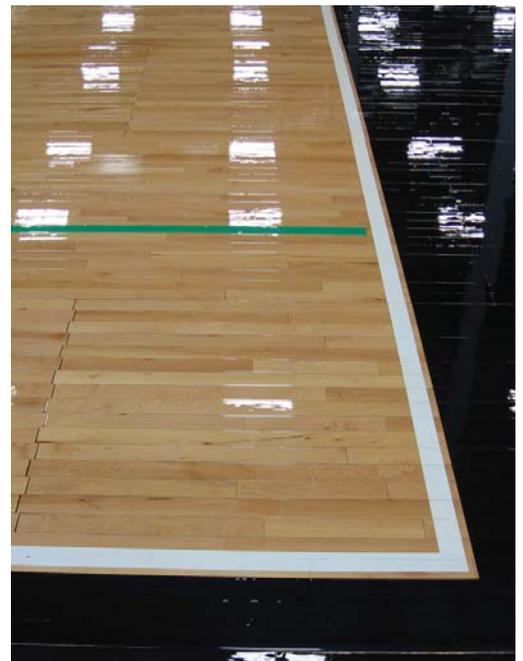


Wood Floor Care Method Bulletin 1420



A complete guide for preparation, application and recommended maintenance for use with Multi-Clean® coatings on wood sports floors

**Hi-Trac®
Pro-Floor® Extreme**



Annual Re-coating of Gym Floors with Pro-Floor Extreme

This Method Bulletin covers all aspects of the annual re-coating of wood gym flooring with Pro-Floor Extreme.

Preparation of gym flooring is the most critical step which will ensure the success of your recoating process. Each procedure has its benefits/drawbacks. Read each procedure carefully to decide which method is best.

The procedure you choose must be followed exactly.....no shortcuts. Failure to follow each step completely can cause product failure and will void any warranty.

If you have questions, please call Multi-Clean at 1-651-481-1900.

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STOP! READ BEFORE PROCEEDING

This method bulletin is to be used **only** by appropriately trained persons in conjunction with such training. **IMPROPER USE OR OPERATION OF MULTI-CLEAN (CHEMICALS OR EQUIPMENT) POSES RISK OF PHYSICAL INJURY OR PROPERTY DAMAGE.** Specific risks include, but are not limited to, burns, and improper application of chemical products (wrong product, wrong product combinations, improper applicator use, and improper curing.) Because a successful and safe application is the responsibility and obligation of the trained applier, the manufacturer disclaims any and all warranties, express or implied, including warranties of **MERCHANTABILITY** or **FITNESS OF PURPOSE**. The manufacturer shall have no obligation except to replace repair, or pay for, in its sole discretion, any chemical product or equipment shown to be defective.

No person has authority to waive these disclaimers or make any representations or warranties on behalf of the manufacturer, except in writing signed by the manufacturer.

If you have not had training with the particular product or equipment you intend to use, please call:
Multi-Clean at (651) 481-1900 to arrange training.

DO NOT USE THIS MULTI-CLEAN SYSTEM OR ITS COMPONENT PRODUCTS WITHOUT APPROPRIATE TRAINING. FOR INDOOR USE ONLY.

To ensure best performance,

DO NOT APPLY Pro-Floor Extreme if any of the Following Conditions Exist:

Floors Less than 2 Years Old: Manufacturers and installers of hardwood flooring typically do not recommend using automatic scrubbers on newly installed gymnasium flooring. **Check the Manufacturers Warranty before Starting the Re-Coat Process.**

New or Freshly Sanded Wood: Pro-Floor Extreme is a finish and should not be applied directly to new, unsealed wood floors or floors that have been sanded to bare wood.

Peeling or Poorly Bonded Finishes: If the previous finish is peeling, flaking or otherwise not adhering, Pro-Floor Extreme should not be applied.

Heavy Finish Build-Up and Soiled: If the floor exhibits a heavy build-up of finish and soils and marks have been "sealed in."

Damaged floors with large gaps: Floors that are warped or have large gaps greater than 1/8 inch.

Parquet Floors: Not recommended for parquet floors.

Contaminated Floors: Floors that have been treated with oil or coated with wax, including paste wax.

Equipment / Supplies for Methods 1-3:

- | | |
|--|---------------------|
| ___ Putty Knife | ___ Rags |
| ___ Mastery dL | ___ Mop Buckets |
| ___ 5 gallon pails | ___ Hi-Trac Cleaner |
| ___ 120 Grit Sanding Screen (1 per 500 sq. ft.) | |
| ___ 175 rpm Floor Machine with Pad Driver/
Backing Pad | |
| ___ Scotch Brite Surface Preparation Pads (SPP)
(1 per 500 sq. ft.) | |
| ___ Red, Blue or Green Pads for Floor Machine | |
| ___ Extension Cords | |
| ___ Cotton Towels | |
| ___ Push Broom | |
| ___ Mop-Bucket with fresh water | |
| ___ Garbage Bags for Clean-Up | |
| ___ Microfiber Mop handle and frames | |
| ___ Microfiber Mop Heads (for applying Finish) | |

Method 1 Wet Screen Method

This is the recommended method when re-coating floors previously coated with Pro-Floor Extreme. This wet screen method is designed to keep dust from entering the air which can cause air quality issues as well as potential dust residues on the floor coating.



Wet Screen Method using 175 RPM Floor Machine

Step 1: Dust mop floor to remove dust, sand and debris. Use a putty knife to scrape up gum, labels, or tape adhesive left on the floor. You can use **Mastery dL** to remove any gum or adhesive residue by applying a small amount to a cloth and rubbing the residue until it is removed. Rinse area with fresh water thoroughly.



Step 2: Divide floor into smaller sections so Hi-Trac solution does not dry out before being picked up. 250 square feet sections are suggested.

Clean and screen the floor using a solution of Hi-Trac diluted at 8 oz/gallon. Apply the Hi-Trac Solution to the floor with a mop and then scrub the floor with a 175 RPM floor machine and a 120 grit sanding screen.



One screen is required for every 500 square feet (250 square feet/side). Screen floor two times in opposite directions for uniform results.

Step 3: Pick-up spent solution after screening with wet-vac or an autoscrubber.

Step 4: Rinse floor thoroughly with fresh water. Scrub floor with floor machine and red pad. Pick-up rinse water with wet-vac. Allow floor to dry.

Step 5: Tack floor with cotton towels to pick up any residual dust. See tack procedure on page 5. Repeat until no dust is found on floor.

Note: If the floor is scheduled to be recoated the day following preparation (Steps 1-4), secure gym or do what is needed to prevent anyone from walking on or using the floor overnight.

Step 6: Apply two coats of Pro-Floor Extreme with catalyst in both coats using the PADCO Professional Floor Coater. See page 5 for specific directions on applying Pro-Floor Extreme.

Wet Screen Method using Autoscrubber

Step 1: Dust mop floor to remove dust, sand and debris. Carry a putty knife to scrape up gum, labels, or tape adhesive left on the floor. You can use **Mastery dL** to remove any gum or tape adhesive residue by applying a small amount to a cloth and rubbing the residue until it is removed. Rinse area with fresh water.

Step 2: Clean and screen the floor using a solution of Hi-Trac diluted at 8 oz/gallon in the solution tank of the autoscrubber.

Scrub the floor with an autoscrubber with solution dispensing valve on maximum. Use 120 grit sanding screen on the pad driver.



One screen is required for every 500 square feet (250 square feet/side). Screen two times in opposite directions for uniform results.

Step 3: Rinse out solution tank and fill tank with fresh water. Rinse floor thoroughly with fresh water using a red pad on the scrubber. Rinse two times in opposite directions for uniform results. Allow floor to dry.

Step 4: Tack floor with cotton towels to pick-up any residual dust. See Tack Procedure on page 5. Repeat until no dust is found on floor.

Note: If the floor is scheduled to be recoated the day following preparation (Steps 1-4), lock the gym or do what is needed to prevent anyone from walking on or using the floor overnight.

Step 5: Apply two coats of Pro-Floor Extreme with catalyst in both coats using the PADCO Professional Floor Coater. See page 6 for specific directions on applying the Pro-Floor Extreme.



NOTE: If a large amount of existing coating has been removed during the screening process, as noted by a very dull looking floor or if the liquid in the recovery tank of the autoscrubber or wet-vac is very cloudy or opaque, it is recommended to re-scrub the floor with the Scotch Brite™ Surface Preparation Pads (SPP). This will smooth the floor and hide any potential swirl marks where the 120 grit screens may have cut the existing coating too deep. This will also allow the Pro-Floor Extreme to build shine faster.

Method 2 Surface Preparation Pads (SPP) Method

Preparation of gym floors by the 3M Scotch Brite™ Surface Preparation Pad method is effective for use on gym floors that have a “softer” type finish, such as oil modified urethanes. When floor has been prepped by the method below, the floor should look clean with a dull shine. If the floor still has a shine, then this method is not recommended. Test this preparation method in a small area before doing the entire gym to verify that the floor can be properly prepared by the SPP.



SPP Method using 175 RPM Floor Machine

Step 1: Dust mop floor to remove dust, sand and any debris. Use a putty knife to scrape up gum, labels and tape adhesive left on the floor. Use *Mastery dL* to remove any gum or adhesive residue by applying a small amount to a cloth and rubbing the residue until it's removed. Rinse area with fresh water thoroughly.

Step 2: Clean and scrub the floor using a solution of Hi-Trac diluted at 8 oz/gallon. Apply the Hi-Trac solution to the floor with a mop and scrub the floor with 175 RPM floor machine and red pad.

Note: Divide floor into smaller sections so the Hi-Trac solution does not dry out before being picked-up. 250 square feet sections are suggested.

Pick-up spent solution after scrubbing with wet-vac or an autoscrubber. Rinse with fresh water.

Step 3 When floor is dry, use a 3M Scotch-Brite™ Surface Preparation Pad (SPP) to scuff the gym floor finish. The pads must be used DRY. Do not use any cleaning solution!



Be careful not to remove court-marking lines. Scrub floor two times in opposite directions for best results.

One SPP pad is required for every 500 square feet (250 square feet/side). **NO EXCEPTIONS!**

Step 4 Vacuum the dry residue (dust).

Step 5: Rinse floor thoroughly with fresh water. Scrub floor with floor machine and red pad. Pick-up rinse water with wet-vac. Allow floor to dry.

Step 6: Clean up remaining dust residue by tacking the floor with clear water and cotton towels to remove dust. See page 5 for details.

SPP Method using Autoscrubber

Step 1: Dust mop floor to remove dust, sand and debris. Use a putty knife to scrape up gum, labels and tape adhesive left on the floor. Use *Mastery dL* to remove any gum or adhesive residue by applying a small amount to a cloth and rubbing the residue until it's removed. Rinse area with fresh water thoroughly.

Step 2: Clean and scrub the floor using a solution of Hi-Trac diluted at 8 oz/gallon in the solution tank of an autoscrubber. Let floor dry.

Step 3: Dry scrub the floor with an autoscrubber using 3M Scotch Brite™ Surface Preparation Pads (SPP). Do not use any cleaning solution! Scrub floor two times in opposite directions for best results.



One pad is required for every 500 square feet (250 square feet/side). **NO EXCEPTIONS!**

Step 4: Vacuum the dry residue (dust).

Step 5: Rinse out solution tank and fill tank with fresh water. Rinse floor thoroughly with fresh water using a red pad on the scrubber. Rinse two times in opposite directions for uniform results. Allow floor to dry.

Step 6: Clean up remaining dust residue by tacking the floor with clear water and cotton towels. Tack the floor until towels are completely clean and no more dust residue is present. See page 5 for details.

Step 7: Apply two coats of Pro-Floor Extreme with catalyst in both coats using the PADCO Professional Floor Coater. See page 5 for specific directions on applying the Pro-Floor Extreme.

Note: If the floor is scheduled to be recoated the day following preparation (Steps 1-4), secure the gym or do what is needed to prevent anyone from walking on or using the floor overnight.

Note: Observe Floor. It should be clean with a dull shine. If floor has a high shine, then re-screen the floor using Method 1 or 2.

Method 3 Dry Screen Method

Preparation of gym floor by the Dry Screen Method is recommended if the existing coating is extremely hard and cannot be prepared for coating by Methods 1 or 2. This method is also recommended when the floor surface has deep scratches or the surface is uneven.

This method will generate a high level of dust. Special care must be taken to control dust and to make sure the dust does not settle into Pro-Floor Extreme while coating. Additional tacking may be required.

Step 1: Dust mop floor to remove dust, sand, and debris. Carry a putty knife to scrape up gum or adhesive residue.

Step 2: Pre-clean the floor with Hi-Trac at 8 oz/gal. A sealed floor can be pre-cleaned with an automatic scrubber. Alternatively use Hi-Trac as a cleaning solution and tack-clean the floor. Let floor dry.

Step 3: Rough up and dull the old finish by using a single disc machine (175 rpm) and a 120 grit screen. One screen is required for every 500 sq. ft (250 sq. ft./side). Screen two times in opposite directions for uniform results.

Step 4: Vacuum the dry residue (dust). The dust can also be cleaned up by rinsing floor using an autoscrubber with red pad and fresh water.

Tack the floor to completely remove all traces of dust. Continue tacking the floor until towels are completely clean and no more dust residue is present on floor. See panel at right for details.

Note: If the floor is scheduled to be recoated the day following the preparation steps (steps 1-4), lock the gym or do what is needed to prevent anyone from walking on the floor overnight.

Tack floor immediately before applying Pro-Floor Extreme. Dust in the air will settle overnight.

Step 5: Apply two coats of Pro-Floor Extreme with catalyst in both coats using the PADCO Professional Floor Coater. See page 5 for details.

NOTE: If a large amount of existing coating has been removed during the screening process, as noted by a very dull looking floor or if the liquid in the recovery tank of autoscrubber or wet-dry vacuum is very cloudy or opaque, it is recommended to re-screen the floor with the Scotch Brite™ Surface Preparation Pads (SPP), See Method 3.

This will smooth the floor and hide any potential swirl marks where the 120 grit screens may have cut the existing coating to deep. This will also allow the Pro-Floor Extreme to build shine faster.



120 Grit Sanding Screen

Screening floor with 175 RPM Floor Machine. Be sure to use a red pad between pad driver and sanding screen.

Tacking Procedure

Tacking is the final step for removing all traces of dry matter (dust) from the gym floor.

If the prepared gym floor is left for several hours or overnight prior to coating, the floor must be tacked immediately before applying Pro-Floor Extreme.

Fill a mop bucket with fresh water. Place 1 to 2 large white cotton (Turkish) towels in the mop bucket. Wring out a towel so that it is damp, not saturated or dripping.

Wrap damp towel around a broom and push across the floor to remove any residue. After every lap or so, rinse out towel in mop bucket. Replace water in mop bucket when water becomes visually dirty.

Repeat until no dust is found on floor. After floor dries, wipe floor with fingers in several places to determine if any residue remains. If any dust is found, tack floor again.



Tacking floor with cotton towels and push broom.

Marking Enamels

Multi-Clean recommends Benjamin Moore Impervex Latex Gloss Enamels.

Apply game line enamel. Allow to dry overnight (12 hours minimum). Lightly roughen surface with a used 120 grit screen or green pad. Clean dust residue and then apply Pro-Floor Extreme as directed.

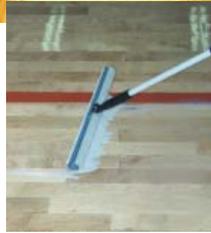
TIP: If possible, shut off the ventilation system in the gym during application of finish to minimize air borne dust settling into wet finish. Turn ventilation on when the finish begins to set so as to aid drying.

Application of Pro-Floor Extreme

Padco Professional Floor Coater

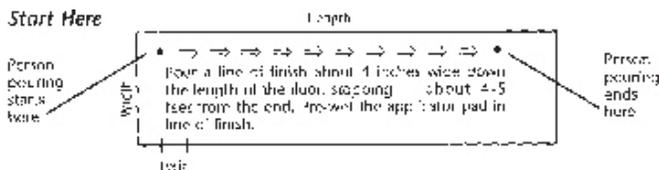
The Padco Professional Floor Coater is ideal for applying Court Shield finishes, including Pro-Floor Extreme.

The application is fast and results in uniform coverage. The Padco Professional Floor Coater is available in 24 inch width.



Preliminary:

Plan your start point on the farthest side of the gym and your end point at the most convenient exit.



Having two people applying Pro-Floor Extreme is most efficient. One will pour the product on floor and the other person will apply coating using the Padco Floor Coater.

Assemble all equipment and chemicals needed:

Supplies

- ___ Padco Heavy Weight Floor Coater 24"
- ___ Floor coater refill pads
- ___ Garden Sprinkling Can (No Spout)
- ___ Clean-up rags
- ___ Garbage bags (for clean-up)
- ___ Pro-Floor Extreme (with catalyst)

Application of Pro-Floor Extreme

Step 1. Catalyze Pro-Floor Extreme. Mix one 4 oz catalyst into each gallon of Pro-Floor Extreme. Catalyze only the number of gallons that will be needed for each coat. **Note:** Both coats must be catalyzed.

Replace cap on each gallon jug of Pro-Floor Extreme and gently invert the bottle of Pro-Floor Extreme 20 times to mix catalyst. Allow the catalyzed Pro-Floor Extreme to sit for 10 minutes before applying to floor and invert five additional times.

Pour Pro-Floor Extreme into a plastic garden sprinkling can. Other devices or methods that will dispense/pour a line of Pro-Floor Extreme along the floor without splashing, creating bubbles or foam are acceptable.

Step 2. Begin applying a line of Pro-Floor Extreme along the length of the gym starting about 6 inches from the far wall.

Step 3. Pre-wet the Padco applicator pad in the line of finish then begin applying by pulling the excess finish toward the opposite side of the floor (snowplowing). Continue pouring and applying product across floor. Overlap wet area 50% each pass.



Do not to allow excess product to flow beyond the opposite end of the applicator at the end of each run. If this happens, gently squeeze out excess product from the applicator, then gently feather out the excess material on floor.

Step 4. About 4 to 5 passes from the planned exit, pour product unto the floor sparingly. Streaks will result if the applicator dries out, so take caution.

On the very last run, if excess product is on floor, collect it near the exit point and soak up with towels or rags. Do not attempt to feather this excess product on floor.

Step 5. Allow the floor to dry 3-6 hours depending on air flow and humidity. **DO NOT** re-coat in less than three hours, even if the floor feels like it is dry.

Step 6. Apply a second coat of Pro-Floor Extreme. Follow steps 1 through 4. Be sure to catalyze the second coat of Pro-Floor Extreme as well.

Allow floor to dry for 24 hours before returning to light-use and 48-72 hours for normal/heavy use.

Important: Do not allow dry time to exceed eight hours between coats, otherwise you must follow one of the following preparation methods:

- Method 1, "Wet screen", Steps 4 - 6 -or-
- Method 2, "SPP Method", Steps 3 - 6

Note: Once Pro-Floor Extreme is catalyzed, it is good for 24 hours. The catalyzed Pro-Floor Extreme must be disposed of if not used after 24 hours.

Recoat Calculator

Product Estimator For yearly Recoat

STEP 1:

Measure Floor Surface

(Multiply length x width for square footage)

Length ___ ft X Width ___ ft = _____ sq. ft.

STEP 2:

Materials Checklist of
Equipment and Products Needed

A. Products

___ Hi-Trac (no rinse cleaner)

___ Pro-Floor Extreme w/ catalyst

STEP 3:

Product Estimator

A. Hi-Trac diluted at 1:16 (8 oz/gal.)

$$\frac{\text{_____ ft}^2}{\text{(Floor Size)}} \div \frac{4,000 \text{ ft}^2}{\text{(1 gallon Hi-Trac @ 1:16) gal.}} = \text{_____ Gallons Hi-Trac}$$

Example: 6,000 Square Foot Gym, Hi-Trac diluted at 1:16

$$\frac{6,000 \text{ ft}^2}{4,000 \text{ ft}^2} = 1.5 - 2 \text{ Total Gallons Hi-Trac}$$

Note: 1 gallon of diluted Hi-Trac will clean approximately 250* square feet per gallon. One gallon of Hi-Trac Concentrate will clean approximately 4,000* square feet when diluted at 1:16 (8 oz/gal.).

B. Pro-Floor Extreme

$$\left(\frac{\text{_____ ft}^2}{700 \text{ ft}^2 * } \right) \times (\text{___ coats}) = \text{_____ Gallons}$$

Example: 6,000 Square Foot Gym, 2 Coats of Extreme

$$\frac{6,000 \text{ ft}^2}{700 \text{ ft}^2/\text{gal.}} \times 2 \text{ coats} = \underline{17} \text{ Total Gallons}$$

* = These coverage rates are estimates. Exact coverage will vary depending on several factors including porosity of floors, application methods, dilution rates and human factor. Always have extra product on hand so you don't run short.

Maintaining Wood Floors

To keep finished wood floors looking their best and maintaining a high traction surface, use Hi-Trac wood floor cleaner. Safe for sealed wood floors, Hi-Trac is effective at cutting oily residue that can make floors slippery, and it will not leave a dulling residue.

Daily/Weekly

Dust mop daily with an untreated mop to remove abrasive, dirt and soils. This should be done as often as possible!

For best performance and gloss retention, maintain Pro-Floor Extreme using **Hi-Trac** at 4 oz per gallon and an autoscrubber equipped with a **White Pad**.

Monthly

Deep scrub to remove oily deposits, black marks, etc. using **Hi-Trac** at 8 oz per gallon and a **White Pad**. Use an autoscrubber or 175 rpm floor machine with a wet-dry vacuum.

Equipment Check List

- ___ Low Speed Single disk floor machine with pad driver.
- ___ White Pads for use with floor machine.
- ___ Wet/dry Vacuum
- ___ Mop bucket with wringer
- ___ Cotton Mops with Handles
- ___ 120 grit Sanding Screens (1 per 500 sq. ft.)
- ___ Scotch Brite Surface Preparation Pads (1/500 sq. ft)
- ___ Microfiber Frame and Handle
- ___ Microfiber pads (designed for applying floor finish)
- ___ 50 ft extension cords
- ___ Putty knife
- ___ Cotton Towels
- ___ 3/4 Inch masking tape.
- ___ 2" paint brushes
- ___ Padco Professional Floor Coater
- ___ Padco Floor Coater Refill Pads
- ___ Garden Sprinkling Cans
- ___ Push Brooms
- ___ Dust Mop