

coliseum[®] 450

Coliseum[®] Wood Floor Coating

A low VOC OMU (oil-modified urethane) wood floor coating with exceptional durability and shine

Features:

- Low VOC OMU (oil-modified urethane) wood floor coating
- Easy application
- Brilliant shine
- Superior abrasion resistance
- Superior film hardness
- Very light in color
- Great cure time
- Quick dry time

Advantages:

- Environmentally safer – 450 g/L VOC compliant
- Excellent leveling



Available in:

5 Gallon Pails

Technical Specifications:

| | | |
|--|---------------|--|
|  | Weight/Gallon | 7.5–7.7 lbs. |
|  | Solids | 50 ± 1% |
|  | Flash Point | 105° |
|  | VOC | <450 g/L |
|  | MFMA | Approved |
|  | Viscosity | Brookfield #2 @ 60 rpms = 69 +/- 1 cps Zahn cup #2 = 28.5 +/- 1 seconds |

Chemical Resistance:

| | | |
|--|-------------------------|------|
|  | Stain resistance | Pass |
|  | Alcohol resistance | Pass |
|  | Naphtha resistance | Pass |
|  | Cola resistance | Pass |
|  | Beer resistance | Pass |
|  | Perspiration resistance | Pass |

Coverage:

- 500-600 square feet per gallon
- 16 to 24-hour recoat window after tack-free (Floors normally dry to tack-free in 8–12 hours).

Tack-free: Shoes do not stick to coating after standing on floor 2–3 minutes. (Floors normally dry to tack-free in 8–12 hours). Higher temperatures/humidity conditions may increase drying and recoat times.

Preparation:

Apply **Coliseum 450** only when temperature is between 65°F and 95°F, and humidity is under 80%. For best results, place **Coliseum 450** near the wood floor ahead of time to acclimate to the same temperature as the floor. Make certain that the floor is clear of contamination including oils, silicones, waxes, fillers, and stains that contain stearates as they may cause adhesion problems.

Follow MFMA and NOFMA guidelines for wood acclimation time prior to installation, sanding, and coating.

Other Equipment needed:

- Low-speed, single disc floor machine (175 rpm) with 20-inch, #120 or #150 grit screens (depending on floor inspection)
- 24-inch or 36-inch push broom (for sweeping and tacking)
- Terry cloth towels (for tacking)
- Putty knife or scraper
- Heavyweight T-bar (18" or 24")
- Reflections pour can
- Coliseum Odorless, Virgin Mineral Spirits/Waterless Cleaner

DIRECTIONS

This product is designed to be used as is (DO NOT DILUTE). Thinning or reducing with solvents is not recommended. Previously coated floors: It is strongly recommended to test a small area first for adhesion purposes over a previous water-based or unknown coating.

For instructions on newly installed floors, sanded to bare wood floors, and applying sealer, contact your Buckeye sales representative or the Buckeye Research department.

1. Remove all tape and gum with a putty knife or scraper. Then clean the floor with **Eco E32 or E33** if floor is extremely dirty. Then rinse floor with water.
2. Let floor dry completely.
3. Screen floors using 3M #120 grit screens (200 sq. ft. per side) until gloss is removed. **If the floor is prepared using a dry screen method, all dust and used screens/pads must be soaked in water prior to disposal to prevent a fire hazard.**
4. Sweep and vacuum floor thoroughly.
5. Tack floor until dust-free with **Coliseum Odorless, Virgin Mineral Spirits/Waterless Cleaner**, and allow to dry at least one hour before coating (with good ventilation). Make sure floor is **totally dry**. If wet screening, tack with water and allow floor to dry overnight before applying coat.
6. Continue on to Coating section.

Complete line painting after floor preparation and before applying coats of **Coliseum 450**. Consult a Buckeye representative for painting instructions.

Note: Test paint before using. Refer to RFS 1510 Buckeye Reflections Wood Floor Painting Instructions.

Coating:

If using Gym Bond, please see Gym Bond literature for instructions.

1. Before applying each coat, turn off the HVAC system. Then 6–8 hours after applying each coat, turn on the HVAC system to allow for proper drying and curing.
2. Apply **Coliseum 450** with a heavyweight T-bar applicator going with the grain at 500–600 sq. ft. per gallon. Do not puddle coating.
3. Apply 1 or 2 coats. Let coat dry for 8–12 hours to tack-free.

Tack-free: Shoes do not stick to coating after standing on floor 2–3 minutes. Then allow an additional 16–24 hours after **tack-free** before applying second coat of **Coliseum 450** for a total of 24 hours bare minimum under ideal drying conditions. See Buckeye Reflections Procedure Manual for more information on applying wood floor coatings.

4. If cured more than 36 hours after laying the first coat, abrade floor with 3M SPPs dry at 200 sq. ft. per side.
5. Let cure 72 hours before light traffic, and 5–7 days before athletic activities. Coating will be fully cured in 2 weeks. Do not put anything that will sit in one place (such as bleachers or matting) on the floor until after the full cure time. Allow HVAC to run continuously during cure process.

Respirators should be worn when applying Coliseum 450.

Adequate ventilation is imperative during curing time. Dry times will vary based on conditions. Do not apply when temperature is above 95° F or below 65° F, or when humidity is above 80%. Clean up with mineral spirits.

Maintenance:

1. See Reflections Maintenance Wall Chart for full maintenance instructions.
2. Use Buckeye **Eco E32 or E33** to remove tough soils/dirt. Follow directions on label.
3. Keep shoe traffic limited by placing walk-off mats at all entrances to prevent dirt from tracking onto the floor, and keep mats clean. Be mindful not to drag tables/chairs across the floor, which may cause floor damage. Do not apply tape of any kind onto the maple floor.

TROUBLESHOOTING



Slow dry

low curing temperatures, high humidity, lack of air movement, or lack of ventilation after coating.



Fisheyes

foreign material on the surface such as oil, grease, or silicone.



Wrinkling

recoating too soon; results when application is too heavy, puddling the coating.



Screen marks

result when an overly-aggressive screen is used between coats.



Bubbling

results when coating is overworked with the applicator, heavy wringing out of T-bar, not enough product on floor, heavily abraded floor, walking too fast.



Streaks

results when coating is applied too thin or making a pass over an area that has tacked up.



Peeling

results from improper or incompatible floor prep, previous floor coating incompatibility, tape application, dirty or dusty floor, residue or foreign material left behind, acrylic spray buff or floor finish applied, white line syndrome due to board movement, missed recoat window. *Peeling can happen at any time when the loose bond decides to give way.*



Dirt particles

result from ineffective vacuuming and tacking, when the applicator is not “de-fuzzed” causing loose fibers in the film, or when room vents are not sealed off during application.



For more information about Coliseum 450, scan this code.

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