



Naturally Tough

Timber Pro UV

Application and Maintenance Guide



General Information

Timber Pro's objective is to provide any user of our products with the adequate information to properly prepare, restore and finish their materials in a professional and healthy manner.

Thank you for the opportunity to provide you with our products, and expertise in the wood finishing industry.

Proper surface preparation is the key to maximum performance of the coatings. The appearance and durability of this product can be impaired by any unsound or poorly prepared surface. In order for the finish to be effective it must be able to penetrate into the wood. It is very important that the surface must be free of all mill glaze, dirt, mildew, loose wood fiber, previous stain or sealer and other foreign matter.

If the wood surface is previously finished or weathered and discolored the surface must either be sanded (smooth wood only) or chemically stripped with Timber Pro Strip & Brite and then power washed to restore the surface to new wood condition. See more complete Strip & Brite directions.

New wood that appears shiny or "glazed" should be sanded with 60-80 grit sandpaper to remove millglaze. New rough-cut lumber or new hand hewn logs should be power washed or scrubbed with Clean & Brite. See more complete Clean & Brite directions.

Timber Pro Coatings does not recommend the use of bleach or oxalic acid for cleaning and preparation of the wood as it can possibly damage the wood fibers and lignin of the wood . They can also chemically compromise the stains ability to dry and cure.



Preparation Directions

1) New Wood

Cleaning (UV damage, dirt):

Using Timber Pro Clean & Brite apply by spray, brush, or pad to an area that can easily be covered in 30 minutes. Keep the area you are working on wet for this period. For best results, agitate lightly with a medium bristle brush. If there are areas that are extra dirty apply more Clean & Brite. Once the product has been allowed to work for 30 minutes and agitated, thoroughly wash down the surface with clean water. If power washing, do not exceed 1000-1200psi. Keep note to especially wash down the log ends, corners, and any cracks or checks. If a reapplication is necessary follow the same steps.

Note: Be careful not to damage the wood surface with the power washer. If there are still shiny areas from mill glaze these areas should be mechanically sanded using either 60-80 grit sandpaper or an Osborne brush to dull the surface and open the wood for the coating to penetrate.



Old Wood

Dirty, Discolored Existing Finish:

If the wood surface has an existing coating applied that is not Timber Pro, it should be removed prior to application, so it does not impede the penetration or bonding of Timber Pro. Existing coating removal may be done in either of the two methods:

Mechanical Method:


Use 60- 80 grit sand paper to remove the existing coating with a mechanical sanding method. Once the coating is completely removed, and sanding dust blown off, then the surface is ready for coating.

Chemical Method:

The best recommendation for removal of existing oil-based coatings, especially from logs, is Strip & Brite by Timber Pro. Strip & Brite may be diluted 1:1 with water. Apply the gel solution to water-dampened surface by low-pressure spray, stain pad, or roller. Allow an activation time of 30 minutes, or up to 6 hours or longer, for heavily built up stain or coatings. If the Strip & Brite starts to dry out, mist with more diluted Strip & Brite to keep moist. Work in manageable sections approximately 200 sq ft at a time. Agitate with a stiff brush for best results. Rinse well with water using a pressure washer (1000-1200 psi max) or hose. Let the water drip off and proceed to Step #2, the neutralization and blanding process.

Follow the directions to make the neutralizer solution. Apply by low-pressure pump sprayer. Allow 30 minutes to activate then rinse well with clean water. This step will remove the darkening and restore the wood to its proper ph level.

Note: the stripping process may cause wood grain to raise fuzz. After Step #2 agitate with stiff brush, while still wet, to remove fuzz. When wood dries, if fuzz is still present, remove fuzz with a light sanding with 60-100 grit sand paper, Maroon colour scotch brite pads, or Osborne type orbital cup brush. After all old / existing coatings and discoloration have been removed, properly neutralized and rinsed, allow wood to dry for 2-3 days prior to recoating.



Before Cleaning

After Cleaning

Application

Before starting any application be aware of the following Do's and Don'ts of product application.

Do Not

- Apply in direct sunlight
- Apply when temperatures are above 25 °C (80 °F)
- Apply below 10 °C (50 °F)
- Apply in wet weather
- Apply when moisture content of the wood is greater than 21%

Do

- Apply when the temperatures are between 10-25 °C (50 °F - 80 °F)
- Stir occasionally during use
- Keep a wet edge
- Apply in the direction of grain
- Intermix batches together to ensure color consistency
- Do coat all end grains heavily
- Do coat all sides if possible
- If brushing, use a nylon polyester brush
- Apply a test patch to reaffirm your color choice and product suitability before proceeding with entire job
- Mask off and protect all surfaces not to be stained
- Practice your technique on a more hidden side when you first start



Tools and Clean Up

Timber Pro products can be applied by spray, nylon polyester brush, roller, or dip tank. Tools and equipment may be cleaned up with soap and water. Do not allow the coating to dry on tools.

Coverage:

Smooth Wood: 250-300 sq. ft/gallon

Rough Sawn: 150 – 200 sq. ft/gallon

Shakes/shingles: 175-200 sq. ft/gallon

Note: The above coverage is given as a guideline as the coverage will vary depending on age of wood, surface porosity and moisture content.

Siding Application

Log and Siding Formula:

This application procedure is for all exterior siding profiles, species and smooth or rough surfaces. Working from the bottom and moving up during application start at one end and work through to a natural break in the siding to avoid lap marks.

- a) Apply a liberal coat of the Timber Pro Log and Siding Formula color to the wood surface. Smooth out all runs, drips, & puddles.
- b) Allow a minimum of 8-16 hours drying. Varies with air temperature and humidity.
- c) Apply a second liberal coat. Smooth out any runs, puddles and drips.
- d) Allow a minimum of 8-16 hours drying.
- e) Apply a final coat of Timber Pro Log and Siding Formula Clear as a top coat for maximum wear.

Note: if spraying, follow directly behind with back brushing to smooth out.



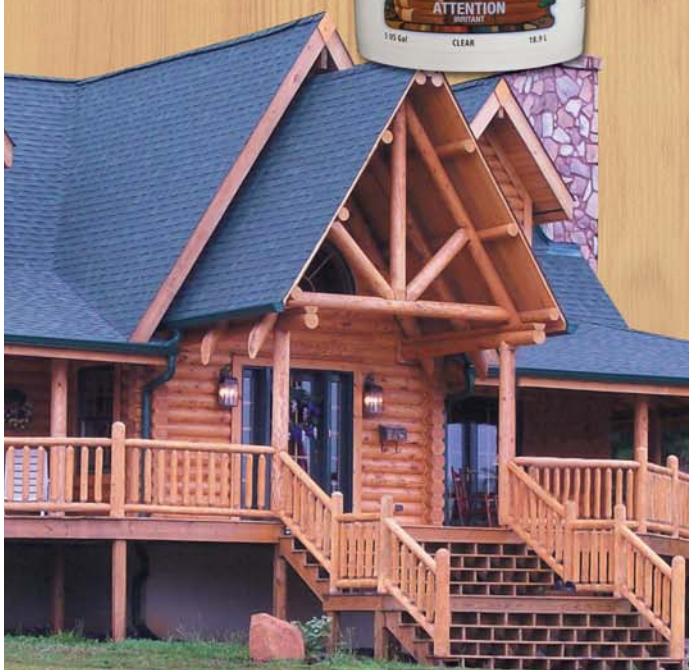
Log Home Application

Log Yard Treatment:

In the case that the log home has been constructed but the season is close to the end and it will not be possible to coat for a number of months. It is recommended to apply the Log Yard Treatment, which will reduce the unwanted discoloration of the logs from weathering effects of the sun, and help reduce surface checking.

- a) Prior to application, the surface should be relatively free from dirt, discoloration, loose fibers and cambium layer.
- b) Apply one saturating coat of the Log Yard Treatment with a low-pressure garden pump sprayer. Allow the product to absorb and then brush out any runs or drips.
- c) Allow 16 hours for full dry.

Note: When you are ready to apply finishes, follow the preparation procedures for new wood-cleaning.



Log Ends Application

Log End Seal:

In the case of newly cut logs, Timber Pro recommends the use of Log End Seal to prevent rapid moisture loss, which results in checking and warping.

The following application procedure is recommended:

- 1) Assure that there is no dirt built up on the log ends prior to application.
- 2) Apply the log end seal heavily by brush roller. Apply one or two coats as needed.
- 3) Allow proper drying of 16 hours between coats.

Note: Once the logs are ready to be finished with a coating, the log end seal needs to be ground off, as it will stop penetration of the final finish.



Log Home Finishing

Log and Siding Formula:

Prior to application if there are many cracks and large checks that face upward they may collect water. These cracks should be filled prior to application. Use an appropriate caulking designed specifically for log home application.

The following application procedure is for all log homes and wood species. This procedure is for seasoned logs with moisture content below 21 %

- a) Apply a liberal coat of the Timber Pro Log and Siding Formula color to the wood surface. Smooth out all runs, drips, & puddles.
- b) Allow a minimum of 8-16 hours drying. Varies with air temperature & humidity.
- c) Apply a second liberal coat. Smooth out any runs, puddles and drips.
- d) Allow a minimum of 8-16 hours drying.
- e) Apply a final coat of Clear Log & Siding formula as a top coat for maximum wear.
- f) Apply 2-3 extra coats of the Log and Siding formula to the ends of the logs.



Deck Application

Deck and Fence Formula:

If the wood surface is previously finished or weathered and discolored, the surface must either be sanded (smooth wood only) or chemically stripped with Timber Pro Strip & Brite, and then power washed to restore the surface to new wood condition. See more complete Strip & Brite directions. All new decks must be sanded 60-80 grit.

Decks can be one of the most problematic areas to coat if all preparation and application instructions are not followed completely.

- a) Apply a flood coat of Timber Pro Deck & Fence Formula and smooth out any runs, puddles and drips.
- b) Allow to dry 16 hours (this will vary with temperature and humidity level).
- c) Apply a second and final colour coat.
- d) Let dry 16 hours before heavy foot traffic.

Note: If possible, coat all sides of the boards and coat the end grains heavily to reduce moisture uptake. In cases of low, unventilated decks or decks exposed to constant moisture, apply only one coat of the Timber Pro Deck & Fence Formula and then re-treat as needed.



Shake / Shingle Siding

Log and Siding Formula:

Due to the extremely rough nature of shakes and shingles the Timber Pro Log and Siding formula should be applied at a rate of approximately 175-200 sq. feet per gal.

- a) Dip or spray the first coat of Timber Pro Log and Siding Formula color, allow the shake/shingle to drip off and assure all runs are brushed smooth.
- b) Allow a minimum of 8-16 hours (this will vary with temperature and humidity level).
- c) Dip, spray or brush the second coat applying liberally.
- d) Allow a minimum of 8-16 hours drying.
- e) Apply a final coat of Timber Pro Log and Siding Formula Clear as topcoat for maximum protection.



Maintenance

The most important factor after proper initial preparation and application in maintaining the long-term beauty and aesthetics of your exterior wood projects is to properly maintain the finish. With regular and scheduled maintenance of the finish, the wood project will look as it did initially, for many years to come.

There are many factors, which affect the maintenance schedule, including your climate, the exposure that your wood project has to the elements, and UV levels. The maintenance schedules given are only suggestions and are given as guidelines. A regular annual inspection is suggested to assure the finish is in good condition.

The Basic Rule: All outdoor wood surfaces should be cleaned yearly with a quality cleaner designed for use on outdoor wood such as Timber Pro's Clean & Brite.

Preparation Prior to Application:

Prior to application of the maintenance coat, it is important to assure the surface is clean of all atmospheric dirt and pollution that has accumulated over time.

For the preparation of the surface prior to the maintenance coat we recommend use of the Timber Pro Clean & Brite used in a 1:2 dilution ratio with water.



Maintenance Schedule

Siding and Log Homes:

Timber Pro Coatings recommends application of one coat of the Timber Pro Log and Siding formula Clear every:

2-3 years on a Southern and Western exposure.

4-5 years on a North and Eastern exposure.

If the color coat has worn or faded due to high exposure or leaving the finish too long between maintenance coats we recommend application of one color coat of the Timber Pro Log and Siding formula followed by one coat of Clear Log and Siding formula. Higher elevation or extreme UV conditions also shorten the time between maintenance coats

Decks:

Due to the high wear and constant exposure of decks to the elements this application area has a higher frequency of maintenance than any other areas. Do not allow snow to accumulate on decks for any long period of time. We recommend an annual inspection and application of the Timber Pro Deck & Fence Formula color every 12-18 months.

Fences:

Outdoor fencing due to its similarity to siding has the same maintenance schedule and is dependent on exposure level and orientation to the sun.

It is recommended to apply a maintenance coat of Timber Pro Deck & Fence or Log & Siding Formula, color or Clear every:

2-3 years on a Southern and Western exposure.

4-5 years on a North and Eastern exposure.

Wooden Outdoor Furniture, Planters, etc:

Outdoor furniture, depending on their exposure, can vary tremendously. For example if they are brought in during winter months, or covered from the elements, or if their usage is high or low. A general rule of thumb if the outdoor furniture has normal exposure and regular use is to apply a maintenance coat of the Timber Pro Deck & Fence Formula.

Interior Finishing

Crystal Urethane:

General:

Proper preparation is the key to a professional looking project and maximum performance.

Preparation

New wood – Bare wood:

To assure a smooth finish, always use sand paper in successively finer grades. Finish with 120 grit sandpaper prior to application of the first coat.

Old wood – with finishes:

The Crystal Urethane is not recommended to be applied over existing shellac, lacquer or stains that contain stearates. These coatings must be removed to bare wood prior to coating. Any old finish in poor condition must be removed.

Never use steel wool to prepare the surface or between coats as it will flash rust and leave marks in the finish.

Application

Some general points to follow and be aware of before application.

Do Not

- Apply below 10°C (50F)
- Apply when the moisture content of the wood is greater than 21%
- Use steel wool For any finishing sanding
- Thin the product
- Shake the product, Only stir

Do

- Keep a wet edge
- Apply in the direction of the grain
- If brushing, use a nylon polyester or pad applicator



Clear Application

If you are applying clear only with no color, the following procedures apply to all gloss levels.

Walls, Doors, Baseboards:

- 1) Apply a coat of the Crystal Urethane
- 2) Allow a minimum of 2 hours drying, prior to application of the second coat. If sanding is necessary to remove dust etc. allow 4 hours drying. Use a scotch brite pad or 220 grit sandpaper to remove any dust etc, use tack cloth to clean the surface.
- 3) Apply a second coat. Allow a minimum of 2 hours drying.
- 4) Apply a third coat. Allow a minimum of 72 hours drying prior to any heavy cleaning.

Floors:

Apply 2 additional coats. Allow at least 72 hours drying for any heavy traffic and 4 days prior to installing carpets.

Stained Interior Surfaces:

In the case where you would like to use a wood tone color for your walls or floors, it is recommended to use the Log & Siding formula as your color coat followed by the Crystal Urethane as a topcoat for the surface wash ability. In this case the application would be:

- 1) Apply one coat Log & Siding in the desired color. Allow 16 hours drying. (If desired color is achieved, proceed to Crystal Urethane).
- 2) Apply a second coat of Log & Siding formula. Allow a minimum of 16-hour drying.
- 3) Apply first coat of Crystal Urethane. Allow a minimum of 2 hours drying.
- 4) Apply second coat of Crystal Urethane. Allow 72 hours drying prior to any heavy cleaning of the surface.



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