



Technical Data Sheet

Rainforest Wood & Masonry Sealer

Features

- May Qualify for up to Four LEED Points.
- No Petrochemical Solvents | Low VOC.
- No Paraffin (mineral oil from petrochemicals).
- Renewable Content 95.99%, 88% Solids Content, 17% Post-Consumer Waste, 92% Regionally Derived, 99.1% Natural.
- Long lasting, nourishing exterior wood stain.
- High density wood fiber cell saturation enables a petrification effect upon maintenance.
- Sustainable | Beautiful | Pleasant to Apply.
- Tough Plant and Tree Resin technology.
- Zinc Oxide, Boric Oxide and Food sources for mold are removed from the natural oils providing excellent mold / mildew resistance without the need for benzene, IPBC or other common, highly toxic biocides.
- Locally derived pine resin is unsurpassed in beauty and durability. It is rare to see such high-quality wood grain illumination in an exterior wood finish.

General Properties

Natural, Exterior, Penetrating Oil Stain. Water, chemical, abrasion and UV / IR radiation resistant. Natural defenses against mold stains. Deep penetrating, clear high solids finish with excellent water repellency, and grain illumination. Hardens into wood fibers. Can be custom tinted or used clear.

Locally Harvested Ingredients: Specially Filtered-

Refined Linseed Oil Engineered for Exterior Use, Linseed Based Resin, Southern Pine Rosin, Pure Citrus Solvent, Zinc Oxide, Boric Oxide, 100% Pure Bees Wax, Lead free Mineral Salt Driers.

Recommended for Exterior Wood: Decks, Log Homes, Timber, Wood Siding & Wood Trim.

Wood Fiber Cell Saturation:

This coating is engineered to saturate the wood fiber cell and remain in the cell. It does not wear away and get rinsed off like conventional stains. Washing and recoating this product will result in increasingly stronger and stronger durability. As the wood fiber weathers, initially, it condenses, with the high-density tree resin condensed into it. Thus, subsequent coats will nourish the wood fiber cell and condense into the cell until fully impregnated. This supplies the wood petrification effect, making the wood appear as if it is mineralized and impervious to weather. The wood becomes ever increasingly resilient with age and maintenance. Not actually fossilized but has that effect.

Vehicle Type: Georgia Pine Resin, Linseed Oil Refined Specifically for Exterior Wood Coating.

Pigment Type: None, inherent amber tone of plant oil.

Volume Solids: 88%

Theoretical Coverage at 75 F (23 C) and 50% Relative Humidity:

Test a sample pint for the most accurate measurement. High solids coatings such as this generally have greater coverage than those containing less resins.

Stain coverage can vary greatly based on wood type and application method. Typically, Rough and Dry Wood absorbs approximately 250-300 sft / gl.

New and Smooth wood 500-700 sft/ gl.

**Old severely weathered or dried out woods like Pressure Treated decking can absorb large amounts of wood finish. Test a sample pint on these wood types before ordering to accurately measure the spread rate.*

Recommended Film Thickness:

Product is a Penetrating Oil Stain that absorbs into the substrate. Do not form a film on the surface.

Dry Time @ 77 F (25 C) @ 50% R.H.:

Set to Touch: 12 hours.

To Recoat: Typically, 24-72 hours, or after overnight dry but humid and cold weather will slow dry. **To**

Service: 72- 96 hours (Allow at least 48 hours from final coat before light floor traffic)

Dries By: Evaporation, Oxidation

Spraying: Use 0.11 tip or larger, always back brush sprayed wood. Clean spray rig with Earth Clean and Water.

Viscosity: Gardner Scale L

Flash Point: Not Less than 200 degrees Fahrenheit.

Surface Sheen: Flat. Products is a flat exterior stain.

Surface Temperature at Application:

Minimum: 45 F

Maximum: 90 F

Does not freeze at 32F but coldness slows drying.

Storage Temperature:

Minimum: 45 F

Maximum: 90 F

Shelf Life: 1 Year unopened. If using Corn Solvent to dilute and speed dry time, then be sure to use all product in a single use. Does not contain toxic preservatives. After 6 months, a protective skin may form on top of the product. This may happen in a can with some air in it. Peel the dried coating on the surface away to get to good product underneath. After time, the oils may thicken but have never been known to go bad, in fact it generally improves the product. However, we suggest a test area be been done to insure older product achieves satisfactory results.

Weight Per Gallon: 8.5 lbs.

Volatile Organic Compounds (VOC):

<94 g/L from Pure Citrus Solvent.

Exterior Wood Stain Colors: Product is Clear (Custom Tintable). We recommend Earthpaint's zero VOC Colorant Containers for tinting which are made mostly from earth oxide pigments and demonstrate an excellent level of lightfastness and fade resistance. Standard product is opaque amber color and dries transparent. Will cause some darkening of wood as is common for oil-based resins. Can be custom tinted with Universal or Oil Based colorant. Treat as ultra-deep base.

Limitations: Add Corn Solvent to speed dry if needed

on extractive rich woods like redwood or exotic hardwoods. These wood types tend to slow the dry time of coatings. If a faster dry is needed then add Corn Solvent but be sure to only mix what is needed that day. Product diluted with Corn Solvent may begin to cure in the can during storage. Temperature, rain, cold or more than 4 oz. per gallon of colorant can also slow the dry time.

Moisture Content Considerations: One coat is fine to apply to wood above 18% moisture content. Use one penetrating coat and come back in a year to do another application as desired. Do this so the moisture in the wood does not get trapped inside. Product is breathable and will allow moisture to escape slowly with minimal splitting and warping. Coat all six sides of a board for the most structural stability during drying and acclimation. If coating green wood, Rainforest will need to be diluted at least 1 quart per gallon with Pure Citrus Solvent.

COATING EXTERIOR WOOD WITH RAINFOREST SEALER

WOOD SURFACE PREPARATION

Strip previous coatings. Apply to raw wood.

Wash deck surfaces with Lime Clean Wood and Deck Cleaner to open wood fiber cell pores, remove mill glaze, coatings, contaminants and extractives. Use White Distilled Vinegar to brighten wood if necessary after washing.

Wash Siding surfaces with Earth Clean.

IF RECOATING RAINFOREST SEALER: Wash surfaces with Earth Clean prior to recoating.

DRY TIME AFTER WASHING: 3 warm dry days or whenever wood is dry.

SANDING: Sand deck surfaces with 35-50 grit. Typically, this is done with a pole sander on all the flat deck floor areas, top rail and any imperfections or splinters (spindles are rarely sanded). Sand smooth siding with 60-100 grit depending on the smoothness desired on that siding. Rough siding is generally not sanded.

APPLICATION TEMPERATURE: 45-90F. (70-90F is ideal, below 45F slows drying.) High Humidity slows drying. Product is not freeze sensitive but coldness will slow drying time.

DILUTION: None necessary for weathered wood. For new, un-weathered wood add one Quart of Corn Solvent or Pure Citrus Solvent to one Gallon of product, prior to use. Can be diluted up to 50% (1:1 ratio) with oil based solvent if desired. Add at least one quart of solvent per gallon for exotic hardwoods or other dense, non-porous woods like Redwood or Locust.

DILUTE IF COATING NEW or NON-POROUS WOOD:
Add 1 quart per gallon of Pure Citrus Solvent, Corn Solvent or Earth Clean so the product penetrates deeply. Using Corn Solvent will speed dry time. Earth Clean will slow dry time which can be helpful if deeper penetration is desired or longer working time is needed.

RAIN: Do not coat wet wood. Green wood or wood that still has natural moisture in it is different than wood that has been rained on. Wood that has been rained on will not allow the wood fiber cell to absorb nourishment. This is like a sponge that is already wet. (Yes, there are ways to get around this but that is a shortcut and does not provide proper impregnation.) Allow wood to dry as much as possible so the wood fiber cell can become fully saturated with dense tree resins.

If it rains lightly after coating wood it very rarely causes any issue. If a hard downpour should occur for an extended period then a freshen up coat may be needed as soon as the wood dries. Most of the time the rain does not penetrate or do any harm. If it does rain hard it is easy to fix with a touch up coat.

SNOW: Rainforest is not freeze sensitive but do not coat frozen wood since it will not absorb proper nourishment in the frozen state.

SUN: The warmer the wood surface, the thirstier it tends to be. Rainforest also likes to be warm when applied. It is fine to leave the can in the sun and to coat hot wood in the direct sunlight. However, please be aware that it may be necessary to come back and dry brush the surface after a couple hours because wood that is coated when warm will tend to release moisture, gasses and air bubbles. This can percolate

some finish to the surface. It just needs to be brushed back into the saturated and happy wood.

MIXING, STIRRING: Add colorant or solvent (if needed) before stirring the generous portion of minerals up from the bottom of the can. Stir with drill mixer or stirrer stick for 3 minutes. Pour into a work pot. Do not contaminate the mix pot by dipping brushes.

APPLICATION INSTRUCTIONS

Apply to Raw Wood or Masonry. Test for allergies and preferences before using.

1.) PREP, DILUTE AND STIR: According to instructions above.

2.) APPLY THIN - Uniformly coat raw, properly prepared wood. Use a high quality natural bristle brush and roller, (foam rollers or foam deck stain pads may work well too). Work into the wood. Product will saturate wood fiber cells.

3.) BACK BRUSH INTO WOOD - Make sure product penetrates the wood. (Do not paint on surface like a polyurethane.)

4.) END OF DAY - Check surface before leaving job for the day. Make sure there are no runs, drips, uneven areas. Typically, this is the knots and burls that accept stain at different rates and need another brushing. On any areas that are too thick go over with a Dry Brush to thin it out and push finish into the wood.

5.) NEXT MORNING - Check in the morning for drips and Flashing. If there is any flashing (shiny spots that didn't soak in fully), wipe them off with a rag soaked in Corn or Citrus Solvent (unless, of course, you are applying Mountain XT Clear 00 top coat).

100% BIODEGRADABLE CLEAN UP: Use Earth Clean added to Water.

STORAGE: Temp 55-75F, 1 yr. unopened. Pour leftover product into smallest possible vessel size.

DISPOSAL: In accordance with local regulations. Rinse and recycle containers whenever possible.

MAINTENANCE: Wash twice a year with Earth Clean. Recoat as needed, following Application Instructions to achieve a petrification effect whereas the wood fiber cell becomes fully impregnated and condensed.

SPONTANEOUS COMBUSTION WARNING

Vegetable oil damp or soaked rags can self-ignite if left piled up. Lay flat to dry or soak in Earth Clean or soap and water, rinse well, dry flat in open air and reuse or compost.

HEALTH PRECAUTIONS: Wear impermeable protective clothing, safety glasses and rubber gloves. Avoid using overhead or spraying without fully covering with impermeable clothing, safety goggles with side shields and an NIOSH approved Respirator.

KEEP AWAY FROM CHILDREN. Emergency contact: Nationwide Poison Center Hotline:1.800.222.1222

LIMITED WARRANTY: The great variation between environmental factors, possible surfaces and application techniques, and the lack of control we have over such matters, must affect our policies. EARTHPAINT INC. products are guaranteed not to be defective when applied and used in accordance with instructions. However, liability, whether express or implied, is limited to replacement of product or refund of purchase price and cannot include liability for labor costs or consequential damages and will be done at Earthpaint Inc sole discretion. It is the user's responsibility to ensure that the proper product is being used for each job.

CONTAINER SIZES: Sample Pints, One Gallon Cans, Five Gallon Pails.

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