

THERMAL*1 COAT Application Guide



This guide provides instructions for preparing your wood surface and applying THERMAL*1 COAT for optimal, long-lasting results. ***Read all information FRONT & BACK***

Product Overview THERMAL*1 COAT is a one-application, semi-transparent, penetrating, oil-based wood stain sealer formulated explicitly for **Thermally Modified Timber (TMT) Wood and Timber Siding**. It offers unparalleled long-term protection against UV damage, water, and mold degradation, creating a natural wood finish that will not form a hardening film. This means no cracking, peeling, or flaking, and no need for stripping, sanding, or media blasting for future reapplications. Your choice of wood tone will determine the rich, wood look you'll come home to love for years, while avoiding simple oil-only treatments that allow the wood to oxidize and turn gray in just months.

Before You Begin

- Always wear appropriate personal protective equipment (PPE). Ensure adequate ventilation.
- Always apply to a small, inconspicuous test area first to confirm the desired color and the complete amount of product to apply for complete penetration.
- Apply between 45°F and 95°F (7°C and 35°C) and avoid applying if rain is expected within 1 hour after application.
- Stir extremely well and get any settling content from the bottom of the container stirred up into the product before and during use.

Surface Preparation The wood surface must be clean, dry, and free of oxidation, dirt, and previous finishes.

- **New Thermally Modified Wood and Timber:** Inspect for mill glaze, dirt, or light oxidation. A light pressure washing may be necessary to remove for optimal penetration of THERMAL*1 COAT. Allow wood to dry completely before application.
- **Previously Stained or Weathered Wood:** More extensive preparation is typically required. This may include pressure washing, stripping, or light sanding (e.g., 80-100 grit).
- Make sure that any sodium hydroxide used for stripping is thoroughly rinsed, and restore the wood's pH to natural levels with a neutralizing solution containing oxalic acid. Ensure the surface is free of cobwebs, pollen, dust, and other foreign materials, and that the wood is completely dry.

Application Instructions THERMAL*1 COAT is designed for a one-coat application. Do not apply a second coat. A little bit goes a very long way, pending the age and porosity of the TMW boards, expect up to 800 to 1200 sqft of coverage per gallon—less for more porous wood.

1. **Protect Surrounding Areas:** Protect surrounding areas with plastic sheeting or tarps
2. **Apply extremely thin and evenly** with an airless sprayer or by hand with a padded applicator. Avoid over-application and apply only enough to penetrate and absorb, then dry completely to the touch within 15 minutes. It will dry quickly and may offer the ability to use in a wet stacking procedure for pre-finishing applications. Being slightly wet when stacked shouldn't affect the finish outcome.
3. **Back-Brush/Back-Roll Immediately:** As you apply, immediately back-brush or back-roll to ensure even coverage and complete penetration. Complete each board from end to end.
4. **Wipe Off Excess:** Wipe off lightly any excess product that does not penetrate the wood and dry out completely if over-applied. Use a clean, lint-free cloth or a wool mitt/deck-padded applicator.
5. **Application Tools:** Preferred: High-quality lamb's wool deck pad or an airless sprayer. Always follow the spray application immediately with back wiping or back-brushing. Brushes can be used for smaller areas.
6. **Drying Time:** Allow at least 1 hour of drying time before exposure to heavy rain.

7. Cleaning Up & Storage

- Clean tools immediately with mineral spirits. Wash hands with soap and water.
- **Important Disposal Note:** Rags or any waste soaked with THERMAL*1 COAT could possibly spontaneously catch fire if not properly disposed of. Soak in water, dry thoroughly, and ensure no solvent remains before discarding. Refer to local regulations for proper disposal.
- Store in original container, tightly sealed, in a cool, dry place away from direct sunlight and heat. It can last for several years if stored properly. Stir well before each use.

Reapplication & Maintenance When reapplication is needed (typically 5+ years or as needed):

- Simply clean the wood surface of any dirt or debris.
- No stripping, sanding, or media blasting is required.
- Apply a single, very thin coat following the "Application Instructions" above.
- Refer to the Safety Data Sheet (SDS) for complete health and safety information.