

THERMAL*1 COAT Product Data Sheet

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1. Product Name: THERMAL*1 COAT

2. Product Description: Sundance Thermal Modified Wood Stain Sealer

THERMAL*1 COAT is a one-application, semi-transparent, penetrating, oil-based wood stain sealer uniquely formulated for Thermally Modified Timber Wood and Siding. Craft-blended using premium architectural coatings, **THERMAL*1 COAT** provides unparalleled long-term protection against UV damage, water, and mold degradation. Its specialized formulation of non-organic long oil alkyd resins, nondrying highly refined mineral oils, and nano-enhanced pigmentation creates a beautiful, deep, rich, authentic, natural wood finish that won't leave a maintenance headache top hardening skin/film.

THERMAL*1 COAT is straightforward to use and requires only basic cleaning for reapplication, without the need for stripping, sanding, or media blasting for reapplication down the road. No shiny or plastic look – just authentic, deep, rich, natural wood beauty accentuating and giving depth to the grain of the wood.

3. Key Features & Benefits:

- **One-Coat Application:** **THERMAL*1 COAT** achieves a beautiful, rich natural-looking finish with just a single coat, thanks to its more substantive formulation, which penetrates with non-organic alkyd resins, enhanced nano-colorants, and nondrying wood oils. These combine to condition, strengthen, and stabilize the wood lignin structure and repel water from the inside out not outside in.
- **Long-Lasting Protection:** This advanced formula offers comprehensive and long-lasting protection for thermally modified wood in any harsh environment. Expect a consistent woodtone finish up to 5-6+ years (longer in shade) and defense protection against UV rays, water damage, mold, and wood rot. It will also minimize any checking (splitting), warping, and cupping, and its self-healing action ensures superior, enduring performance.
- **Non-Film-Forming & Easy Reapplication:** Unlike traditional stains that form a film or skin on the wood surface, **THERMAL*1 COAT**'s non-film-forming formula will not polymerize or harden building up layers of film creating a diminished unsightly finish over time. This guarantees no cracking, peeling, or flaking is possible, and no need ever for stripping or media blasting for future reapplications ever.
- **Seamless Application & Easy Maintenance:** **THERMAL*1 COAT** allows for easy and even application, no lap marks, and no uneven finish if applied in one application from beginning to end on board. With no long-term buildup down the line, just an easy cleaning and subsequent reapplication will leave it as beautiful as the first day applied!

4. Product Uses:

THERMAL*1 COAT provides excellent coverage for a wide range of dense, thermally modified wood surfaces, such as Ash, Oak, Red Oak, Cypress, IPE, Brazilian Hardwood, and Pine used in T-M clad siding and decking, as well as all other T-M timber siding and cladding

5. Technical Data

- **Appearance:** Semi-transparent, rich, deep natural wood finish ●
- **Physical State, Odor, Viscosity:** Liquid, oil/solvent odor, thin viscosity.
- **pH, Specific Gravity, Flash Point:** Not available
- **VOC Content:** < 250 grams/liter ● **Solubility in Water:** Not soluble
- **Coverage per Gallon:** 800-1200+ SQFT pending density of wood

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6. Surface Preparation

Proper surface preparation is crucial for optimal performance. Ensure the wood surface is clean, dry, and free of dirt, debris, and previous finishes. For new wood, light pressure washing may be necessary to remove oxidation. More extensive preparation, including pressure washing, stripping, and sanding, may be required for previously stained wood pending what type of finishes have been applied in the past.

7. Application Instructions

- Apply a very thin, light coat of THERMAL*1 COAT, no more than will achieve complete saturation. Back-brush or back-roll immediately for even coverage. Wipe off any excess that is not penetrating. Once a board is started finish out the board in entirety.
- You can use a lamb's wool deck pad or mitt, short pile mini roller, foam applicator, and/or a airless sprayer for a very light application. Back brushing or rolling is advisable if sprayed. If not dry to light touch within 5-10 minutes lightly wipe off excess.
- Apply any vertical surfaces first, followed by horizontal surfaces. Do not apply a second coat.
- Allow 1 hour of drying time before heavy rain. Dries quickly. The ideal application temperature is between 45°F and 95°F.

Wet Stacking option:

The product is engineered for efficient production workflows, enabling wet stacking within 2 to 5 minutes from application. At this point, the finish will exhibit a "smudging dry" characteristic, where a light touch yields no transfer, deliberate rubbing pressure may cause very slight color/oil residue to transfer. This condition is compatible with stacking and will not compromise the final finish, color consistency, or long-term durability. The product's curing process is robust and self-sufficient; it will fully cure even when stacked and isolated from air.

8. Cleaning

Clean tools and equipment after use with mineral spirits. Put any used rags in bucket with water to mitigate solvent content before disposal. Wash hands and skin with soap and water.

9. Storage

Store THERMAL*1 COAT in a cool, dry place away from direct sunlight and heat sources. If stored properly, the product can last for several years. Stir well from the bottom before each use.

10. Environmental Considerations and Safety

Warning: Contains combustible solvents. Never smoke or have near open flame. Apply In well ventilated area. Dispose of unused product and containers in accordance with local regulations. Do not place used rags in contained garbage can until dry and void of solvents.

11. Contact Information

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