



In-Wood® Stain

Product Data Sheet



PRODUCT DESCRIPTION

In-Wood® Stain utilizes state-of-the-art wood protection technology, combining the highest quality oils with microscopic Trans-Oxide pigments, allowing maximum penetration for long term performance. Trans-Oxide pigments, at approximately .01 micron, are 1/15 the size of standard paint or stain pigments. These pigments allow for superior penetration and ultraviolet protection. The UV transmission is reduced to nearly 5% compared to the 50-65% transmission of common pigments found in semi-transparent stains. A natural version is also available for maintaining wood in its present or natural state.

WARRANTY

See applicable warranties and guarantees for complete coverage and restrictions.

PACKAGING & SHELF LIFE

1 gallon (3.8 liter) bucket
5 gallon (19 liter) pail

Shelf life 24 months if unopened containers stored between 40°F and 70°F (4°C - 21°C).

BASIC USES & ADVANTAGES

New as well as old or weathered wood can be stained and weatherproofed with **In-Wood® Stain**. Cedar roofing can be maintained mildew free. Wood decking can be preserved without worry of peeling. Virtually any wood surface, interior as well as exterior, can be enhanced with the protective qualities of **In-Wood® Stain**.

In-Wood® Stain is also an excellent choice for the protection of wood docks and planking. The microbicides used in the formulation are not classified as carcinogenic. The cured **In-Wood® Stain** penetrant will not release toxic chemicals into lakes, rivers or other waterways.

Advantages:

- **Deep Penetration:** Ultra low viscosity allows **In-Wood® Stain** to penetrate into pores and micro-openings within the wood.
- **Repels Water:** Exceeds military specification MIL TT-W-572 for water repellency. Prevents damage from water and subsequent effect on fiber breakdown from winter freeze-thaw cycles.
- **High Solids or Natural:** Trans-Oxide colors block out harmful UV rays, preventing degradation of the

wood fibers. Natural also contains an ultraviolet absorber to invisibly protect the wood fibers.

- **High Solids:** **In-Wood® Stain's** 40% solids content by volume can be compared to the 5% to 12% solids found in many natural wood preservatives.
- **Mold & Algae Protection:** Prevents unsightly discoloration caused by Trichoderma, Gliocladium, and Penicillium surface mold as well as discoloration from green or black mycelia spores.
- **Sapstain Protection:** Prevents discoloration produced from sapstain fungi hyphae which ranges from gray to blue.
- **Wood Decay Protection:** Prevents decay caused by enzymatic decomposition of the cell wall constituents by Chaetomium Globosum, Coniophora Putean and Poria Incrassata fungi.
- **Safe To Use:** The microbicide has been evaluated as having very low acute and dermal toxicity; lower than many commonly used food additives and oral drugs.
- **Resistance to Sulfide Staining:** Industrial areas containing sulfide fumes will darken ordinary finishes. **In-Wood® Stain** is not affected by sulfide fumes.

PHYSICAL PROPERTIES

IN-WOOD® STAIN	
Solids by Weight	45% (± 1) [ASTM D2369]
Solids by Volume	40% (± 1) [ASTM D2697]
Weight per Gallon	7.2 lbs. (3.3 kg) (± 0.2) [ASTM D1475]
Viscosity	5-10 cps [ASTM D2196]
Flash Point	110°F [ASTM D3278]

Colors	Available in Natural and several standard, natural-tone Trans-Oxide colors: Cedar, Sierra, Maple, & Pecan.
	A wide variety of colors and tones can be obtained by intermixing the Trans-Oxide colors or by mixing colors with Natural.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION: Surface to be treated must be clean, dry, and free of sawdust, soil, or grease. If necessary, thoroughly clean the surface using a wood wash or mill glaze remover/conditioning product designed for use prior to application of a penetrating stain. Recommended for use on bare wood that has not been previously treated with paint or heavy-bodied stain. If the wood has been previously treated with a stain or paint product, it is necessary to completely strip the old finish from the wood in order to achieve optimum penetration.

MIXING: Stir thoroughly from the bottom of the container prior to application, as well as frequently during use.

APPLICATION: Apply at temperatures between 45°F to 75°F (7°C to 24°C). Can be applied by brush, roller, or sprayer. Apply at a minimum rate of 150 – 300 ft²/gallon (3.7 – 7.3m²/L) per coat. Generously apply to the surface almost to the point of running, then brush or roll the excess material into the wood surface. On most new or tight-grained surfaces, one coat is all that is recommended. Weathered or porous surfaces may require 2 coats to adequately seal the substrate.

GAF Liquid-Applied

January 2016, supercedes March 2015

For technical, system, and warranty information, visit gaf.com or call 1-800-766-3411.

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LIMITATIONS & PRECAUTIONS

In the liquid state, **In-Wood® Stain** contains hydrocarbon solvents (mainly mineral spirits). When applying **In-Wood® Stain** to an existing dock or other marine application, utilize a brush or roller to apply the material rather than spray equipment. Every attempt should be made to prevent the solvents contained in **In-Wood® Stain** from entering the water.

Provide adequate ventilation during application. If **In-Wood® Stain** contacts the skin, clean with soap and water. In case of contact with eyes, flush with water for 15 minutes and see a physician if irritation persists.

SAFETY & HANDLING

For specific information regarding safe handling of this material please refer to the Safety Data Sheet (SDS).

CLEAN UP

Clean equipment using Mineral Spirits.