



IWS INTERNAL WOOD STABILIZER

APPLICATION GUIDE & DATA

Wood sealer – Non-toxic wood treatment designed to improve internal water repellency, dimensional stability, and subsequent stain longevity.

IWS is a permanent, non-toxic, water-based clear treatment for untreated wood surfaces. The colorless solution penetrates deep into the wood's cellular structure, forming a durable internal crystalline mineral barrier. Treated **wood will naturally grey over time**, but it retains internal water repellency, insect resistance, and dimensional stability.

While IWS performs exceptionally well as a standalone finish, it reaches peak performance when used in tandem with LS PRO, LSS, or DF coatings. Together, they form a synergistic, ultra-durable, one-of-a-kind system that protects against UV, moisture, mildew, and pigment fade, significantly increasing stain durability. Ideal for architectural coating systems. Suitable for machines, HVLP, airless, roller, and brush applications.

COVERAGE

Wood Surface	Approximate Coverage (per coat)
Smooth Wood	200-225 square feet/gallon
Rough Sawn	175-200 square feet/gallon

*Coverage may vary depending on wood porosity and condition.

PRODUCT FEATURES

Structural Stabilization

Mineral matrix reinforces and stabilizes wood fibers

Adhesion Boost

Enhances topcoat adhesion and pigment longevity

Non-Toxic

Zero VOC, Non-toxic, HPD, & 2-3 LEED credits

Permanent

Permanent treatment— no reapplication needed

Compatible with Treatments

Engineered to work with LS PRO, LSS, or DF stains & CU

Plant & Animal Safe

Safe to use in gardens and animal enclosures

Interior & Exterior Use

Durable & safe for both interior and exterior substrates

Easy Application

Easy spray/brush application & water cleanup



APPLICATION & USE CASES

1 Primary Applications :

IWS is intended for raw or properly prepped wood surfaces. Not intended over surfaces previously coated with oil-based sealers, non-penetrating acrylics, latex, or solid paints. For optimal results, use IWS on raw wood surfaces (kiln-dried or air dried, moisture content <14% and no higher than 22%).

2 Recommended Pairings :

- IWS + DF/LSS/LS PRO for superior stability, moisture resistance, longevity, UV resistance and aesthetic durability
- IWS + Crystal Urethane for superior stability, moisture resistance, increased coating adhesion, wipeability, and luster for interior wood

IDEAL FOR:

- ▶ Smooth/Rough Sawn: cedar, fir, pine, juniper, redwood etc.
- ▶ Plywood, OSB, cork siding and other specialty wood substrates
- ▶ Interior wood surfaces: beams, trim, ceilings, lattice, feature walls, etc.
- ▶ Exterior wood surfaces: beams, trim, siding, wood structures, etc.
- ▶ Mass timber; commercial, residential



APPLICATION GUIDE

SURFACE PREPARATION

1 New Wood:

Sand to 60-120 grit to remove mill glaze if necessary. Remove dust and debris with an air compressor or fine broom.

2 Existing Wood:

Clean with Clean & Brite to brighten gray fibers and remove mildew and dirt, or Strip & Brite for heavy weathering or to remove oil-based stains. Once dry, you may sand to 60-120 grit on smooth wood to remove fuzz if necessary. Remove dust and debris with an air compressor or fine broom.

SAFETY INFORMATION

- ▶ Avoid contact with eyes, skin, and glass
- ▶ Do not inhale spray mist
- ▶ Use personal protective equipment
- ▶ See SDS for full safety information

STORAGE

Store above 50°F (10°C) in a sealed, airtight container. Do not freeze or expose to temperatures above 90°F (32°C). Clean tools with soap and warm water after use.

IMPORTANT NOTICE

Proper preparation, product selection, and environmental conditions are essential for optimal performance. Always test before full application. Timber Pro Coatings assumes no responsibility for misuse, application outside the recommended procedure or climate change-induced extreme weather events. For more information or to order, visit the Timber Pro Coatings website.

WARRANTY

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APPLICATION METHODS

1 Sprayer Application :

Use machine sprayer, HVLP, pump sprayer with a fan tip, or airless sprayer. Spray evenly to lightly saturate the wood, 1-3 boards at a time, spraying the full length of the board. Avoid puddling, drips, or overapplication. Back-brush for even application. Allow 1-24 hours* to dry before applying second coat.

2 Brush Application :

Apply evenly along the grain using a stain brush or pad, 1-3 boards at a time, for the entire length of the board. Avoid puddling, drips, or overapplication. Keep a wet edge and back-brush to eliminate overlap. Allow 1-24 hours* to dry before applying second coat.

WORKING PROCEDURE

- ▶ Apply only in shaded or cool conditions (50–74°F / 10–23°C optimal)
- ▶ **Ensure all glass is fully covered** as product will etch glass
- ▶ Avoid application if wood moisture content exceeds 23%, or during rain, high humidity, or if rain is expected
- ▶ Test on a small section and allow to dry before full application
- ▶ Apply 2 even coats
- ▶ **Wood may temporarily darken** or patina due to natural tannins; this is normal and fades with time or can be brightened with Clean & Brite after 5 days of curing for architectural wood. White crystals may form during curing if wood is fully saturated; they are not harmful and will take on the color of any subsequent stain.

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