



CRYSTAL URETHANE

APPLICATION GUIDE & DATA

Clear wood finish – Non-toxic coating for interior wood surfaces. Designed for lasting clarity and resilience under normal interior use. Creating that ideal, smooth, wipeable surface.

Crystal Urethane is a water-based, non-toxic finish for interior wood. It dries clear and resists yellowing, UV degradation, moisture, mildew and common chemicals. Use on bare, sanded wood or over Timber Pro Coatings: Ember Guard, LS PRO, LSS or IWS. Creates an ideal wipeable surface. Excellent for large scale architectural buildings or small-scale woodworking projects.

For high-performance mass timber applications: See Mass Timber Application Guide.

For Log Homes: See Log Home Application Guide.

PRODUCT FEATURES

Durability

Professional durability on smooth wood

Penetrating

10 minute absorption time deep-penetrating stain*

Sustainable

No petroleum derivatives, 2-3 LEED credits, and 34 g/L VOC's

Fire Resistance

Class B ASTM E-84 Fire Resistance (FSI = 35 & SDI = 10)

Customizable

Available in 70+ tones with custom color matching available

Multi-Use

Protects against UV degradation, moisture, and mildew

Interior & Exterior Use

Durable & safe for both interior and exterior substrates

Easy Application

Compatible with spray/brush application & easy water cleanup

Compatible with Treatments

Engineered to work seamlessly with our other coatings

Easy Maintenance

Recoatable without sanding if maintained



APPLICATION & USE CASES

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Primary Applications :

Crystal Urethane is intended for raw or properly prepped wood surfaces. Not intended over surfaces previously coated with non-penetrating acrylics, latex, or solid paints. For optimal results, use Crystal Urethane on raw wood surfaces (kiln-dried or air dried, moisture content <14%).

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Recommended Pairings :

- EG + CU for Class A fire resistance, moisture resistance, longevity, and aesthetic durability
- LSS + CU for moisture resistance, longevity, and aesthetic durability
- EG + LSS + CU for Class A fire resistance, aesthetic color modification, and wipeable durability

IDEAL FOR:

- ▶ Interior wood surfaces: window trim, walls, ceilings, beams, etc
- ▶ Interior mass timber; commercial, residential for high touch surfaces
- ▶ Wood slabs and other interior furniture
- ▶ Interior architectural wood in high touch areas



APPLICATION GUIDE

SURFACE PREPARATION

Apply only to bare wood or over compatible Timber Pro Coatings (LS PRO, LSS, EG, or IWS). Sand to 80-220 grit to remove mill glaze if necessary. Remove dust and debris with an air compressor or fine broom.

COVERAGE

Wood Surface	Approximate Coverage (per coat)
Smooth Soft Woods	400-500 square feet/gallon
Smooth Hard Woods	500-650 square feet/gallon

*Coverage may vary depending on wood porosity and condition.

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 :

Stir gently before and during use; do not shake. Use machine sprayer or HVLP sprayer with a fan tip, working from the bottom up if spraying vertical surface. Spray evenly to lightly saturate the wood. Avoid puddling, drips, or overapplication. Back-brush with the grain for even application. Allow 1-24 hours* to dry before applying next coat.

2 Brush Application :

Apply evenly along the grain using a stain brush, working from the bottom up. 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.

*Dry time varies with temperature, humidity, wood type, and porosity. Apply early, before wood heats, and avoid direct sun over 74°F (23°C).

WORKING PROCEDURE

- ▶ Apply only in shaded or cool conditions (50–74°F / 10–23°C optimal)
- ▶ Stir product well throughout application, do not shake
- ▶ Do not apply if wood moisture exceeds 23%
- ▶ Test on a small section and allow to dry before full application
- ▶ Apply 2-5 even coats (3-5 coats for high traffic areas)
- ▶ Lightly sand with 220 grit between coats for smoothest finish or if grain raises
- ▶ Avoid foot traffic for 72 hours
- ▶ Optional: Apply a nano-ceramic topcoat after full cure for additional hardness

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