



Fire Retardant Coatings of Texas®, LLC  
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# FX LUMBER GUARD® INTERIOR FIRE RETARDANT PENETRANT

## TECHNICAL DATA SUBMITTAL

### CERTIFIED FOR FACTORY & FIELD APPLICATIONS

- Fire Retardancy is indefinite if protected from excessive exposure (3-4 weeks) to high humidity >150% or wet locations.
- Can be stained, painted, or sealed over after the material is dry with water-based **products only**. (Recommendation: apply stain, paint, or sealer to a small area before overcoating to check for compatibility.)
- Treated dimensional lumber can be straight-cut or cross-cut. If ripping or milling, the cuts will need treating. **All sides must be treated (call for exceptions)**
- Treated plywood and EWP can be straight cut, cross cut, or ripped and will not require re-treatment.
- Recommended fasteners: follow IBC Chapter 23, Stainless Steel, Galvanized or Copper

We provide a red colorant for treatment validation when requested by our customers at no additional cost.  
Meets 16 CFR 1500.3 FHSA of the Consumer Product Safety Commission (CPSC) as Non-Hazardous / Non-Toxic

#### CERTIFIED ONE COAT APPLICATION by Intertek Laboratory

**Design Values of lumber and plywood are not affected.  
Also, OSB's load values are not affected by  
FX Lumber Guard.**

**DO NOT ADD ANYTHING TO THE PRODUCT**

**KEEP FROM FREEZING – DO NOT DILUTE**

**NOTE:** The results of the three listed species (Southern pine, Douglas fir, and either white spruce or a Spruce/Fir mixture) are allowed to be used together to make inferences on untreated wood species because the three tested species represent the full spectrum of expected treatability. Ref: ASTM D5516

### Intertek Certified Listed & Tested

ASTM E84 (Class A 10 Minutes)  
ASTM E84 / ASTM E2768 (Class A 20 Min. Ext.)

Certified on the following

**Southern Yellow Pine, Spruce Pine Fir, Hem Fir & Doug Fir Lumber, Doug Fir & SYP Plywood & OSB**

See the Intertek Directory of Building Products,  
[bpdirectory@intertek.com](mailto:bpdirectory@intertek.com) for complete information.

### Additional Class A Testing, Standards and Certifications

#### For all structural materials

#### CSI Div. 06 05 73.33 Fire Retardant Wood Treatment

ICC ES ESR 3872	IAPMO ER-478
ICC ES ESL-1087 and ESL-1064 Cert.	IAPMO UEL-5019 Cert.
ASTM E119 (1 Hour Rated Assemblies)	MEETS NFPA 255 / 703
ASTM E119/ULC S101 – 17 Min Res.	AC 363 Compliant
ASTM D5664 Lumber Strength-High Temp.	ANSI / UL723 – UBC 42.1
ASTM D5516 Ply/OSB Strength-High Temp.	NFPA 703 Compliant
ASTM D3201 Hydroscopic Properties-19.9%	AWPA U1 UCFA Interior
ASTM D2369 VOC Content Tested	UL Green Grd Gold-Certified
AWPA E12 Corr. of Metal Non-Corrosive	Certified 1 Coat Application
NFPA 259 Potential Heat of Building Materials	ASTM E84 / ULC S102 Class A

**Additional Applications:** I-Joist, PSL, LVL, LSL's, Glulam's, Cedar, Redwood, MDF, Particle Board and other porous softwoods / hardwoods & Sheathings. Can be used in 1 & 2-hour assemblies where fire retardant lumber and sheathing is allowed.

#### TECHNICAL INFORMATION

FSI 5 - 15 • SMOKE 30 • 3-year shelf • 300-350 Sq. ft. per gallon  
Non-Toxic • Non-Hazardous • Environment Safe • VOC .06%  
Paintable / Stainable / Finish able (with water based products only)  
Apply 45-95° F • Store above 45° F

#### LOW VOC EMISSIONS AND CONTENT

### Application Process:

Material to be treated must be clean (no sealer, stains, or paint) & dry before treatment. Agitate FX Lumber Guard before and throughout the application. Apply as you receive it, spraying with a hand pump sprayer, a high-volume low-pressure system at a rate of **300-350 sf per gallon**, depending on the material treated. (Vertical spraying) Start from the bottom and work up, as there is less runoff this way. **Dry time will vary from 8-32hrs depending on air temp & humidity**. The maximum moisture content for the substrate to be treated is 15 percent for dimensional lumber, 19 percent for plywood, and 16 percent for oriented strand board (OSB). Don't hesitate to contact us for more information if you have any questions or concerns.

### Field Testing:

When the observation of the treatment or field testing is required, field testing must be as follows: The treated substrate will not have distinctive observable features. A sample of the treated material must be tested to ensure proper application. The flame from a small fire source (propane torch) can be applied to the treated sample to validate the application of the fire-retardant and an untreated sample of the substrate for comparing the reaction of the surface for not less than 15 seconds. The presence of chemicals must be observable by comparing the reactions of the substrates to the flame. The presence of the fire retardant can be observed when it begins to form a black layer of charring.

**Finishing: Use a water based, non-acrylic, non-satin finish. FX Lumber Guard needs to be dry before any top coating material is used. When applying a finish, test a small area first to make sure the surface is dry enough and the results are what you want. If gumming or balling of the topcoat is present that means FX Lumber Guard is not dry enough for top coating.**

**WARNING: KEEP THIS AND ALL CHEMICALS OUT OF CHILDRENS REACH - AS WITH ANY PRODUCT, THIS PRODUCT MAY CAUSE EYE AND/OR SKIN IRRITATION - ALWAYS WEAR PERSONAL PROTECTION EQUIPMENT WHEN HANDLING THIS OR ANY CHEMICALS.**

