



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

## TECHNICAL DATA SUBMITTAL

### CERTIFIED FOR FACTORY AND FIELD APPLICATIONS

- Fire Retardancy is indefinite if protected from excessive exposure (3-4 weeks) to high humidity of >80% or wet locations.
- Can be stained or painted over after material is dry
- Treated dimensional lumber can be straight or crosscuts, if ripping, the cuts will need re-treating.
- Treated plywood and EWP can be straight cut, crosscut or ripped, and will not require re-treatment.
- Recommended fasteners: Stainless Steel, Galvanized or Copper

We provide a red colorant for validation of treatment 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

**Degradation: Design Values of lumber, plywood and OSB are not affected by the application of FX Lumber Guard due to the less evasive application than impregnation and kiln drying.**

#### 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 inference on untested wood species because the three-tested species represent the full spectrum of expected treatability. Ref: American Wood Counsel

### Intertek Certified Listed & Tested

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

Certified on the following  
 Southern Yellow Pine, Spruce Pine Fur, 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

CSI Div. 06 05 73.33 Fire Retardant Wood Treatment  
 CSI Div. 09 96 43 Fire Retardant Coatings

- |   |                              |
|---|------------------------------|
| ICC ES ESR 3872                             | IAPMO ER-478                 |
| ICC ES ESL-1087 and ESL-1064                | IAPMO UEL-5019               |
| 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 Hydrosopic Properties-19.9%      | AWPA U1 UFCA                 |
| ASTM D2369 VOC Content Tested               | UL Green Grd Gold-Certified  |
| AWPA E12 Corrosion of Metal – Non Corrosive | Certified 1 Coat Application |
|   | 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 2-hour assemblies where fire retardant lumber and sheathing is required.

#### TECHNICAL INFORMATION

- FSI <25 ● SMOKE 50 - 165 ● 3-year shelf ● 300-350 Sq. ft. per gallon
- Non-Toxic ● Non-Hazardous ● Environment Safe ● Paintable / Stainable
- Apply between 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 treating. Agitate FX Lumber Guard before and throughout the application. Apply as it's received by spraying with a hand pump sprayer, a high-volume low-pressure system, rolled or brushed on at a rate of 300-350 sf per gallon depending on the material being treated. (Vertical spraying) Start from the bottom and work up as there is less run off this way, drying time will vary from 8-32hrs depending on temp & humidity in the air. 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).

### Field Testing:

When the observation of the treatment or field testing is required, field testing must be conducted as follows: The treated substrate will not have distinctive observable features. To ensure the substrate has been treated properly, the treated substrate must be field tested, the flame from a small fire source (propane torch) is applied to a treated and untreated sample of the substrate for not less than 15 seconds. The presence of the treatment must be observable through the comparison of the reactions of the substrates to the flame. Presence of the fire retardant can be observed when it begins to form a black char layer.

**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.**

