



Fire Retardant Coatings of Texas
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FX LUMBER GUARD®
INTERIOR FIRERETARDANT PENETRANT
CHEMICALLY IMPREGNATES

TECHNICAL DATA SUBMITTAL

FRCT's priority is what our customers' needs are

FACTORY & FIELD APPLICATIONS

- Fire Retardant application is permanent, no retreatments are required, no maintenance is required.
- Can be stained, painted, or sealed over after the material is completely 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 crosscut. If ripping or milling, the cuts will need treating.
- Treated plywood and EWP can be straight cut, crosscut, or ripped and will not require re-treatment.
- Recommended fasteners: follow IBC Chapter 23 requirement, Stainless Steel, Galvanized or Copper.

We can provide a **red colorant** @ no cost for treatment validation when requested by our customers.

DO NOT ADD OR MIX ANYTHING TO THE PRODUCT KEEP FROM FREEZING

At FRCT, customer satisfaction is not just a goal; it's a commitment. As part of this commitment, we provide a red colorant to validate treatment **when requested**. This valuable service, offered at no additional cost, not only ensures the quality of our product but also provides significant savings for our customers, showing our appreciation for their choice.

We take pride in being the pioneers in our industry to meet the 1/8 joint and roof decking requirement of the 2021 / 2024 IBC requirement on plywood and OSB. This landmark accomplishment is a clear testament to our unwavering commitment to innovation and quality, setting us apart from our competitors.

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

NOTE: * SAME AS FRTW

CCRR 1044 - Intertek Certified Listed & Tested
ASTM E84 (Class A 10 Minutes)

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

See the Intertek Directory of Building Products,
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 Modified Assemblies)	*MEETS NFPA 255 / 703
ASTM E119/ULC S101-17 Min (modified)	UL Green Grd Gold-Cert.
*ASTM D5664 Lumber Strength-High Temp.	ANSI / UL723 – UBC 42.1
*ASTM D3201 Hydroscopic Properties-19.9%	AWPA U1 UCFA Interior
*ASTM D2369 VOC Content Tested	Certified 1 Application
*AWPA E12 Corr. of Metal Non-Corrosive	AWPA U1 UCFA Interior
*NFPA 259 Potential Heat of Building Materials	

For more details on our testing, visit frctexas.com.

We test to the same standards as Fire Retardant Treated Wood.

Additional Applications: I-Joist, PSL, LVL, LSL, Glulam's, Cedar, Redwood, MDF, Particle Board, and other porous softwoods/hardwoods & Sheathings.

TECHNICAL INFORMATION

FSI 5 - 15 • SMOKE 30 • 3-year shelf • 300-350 Sq. ft. per gallon
Non-Toxic • Non-Hazardous • Environment Safe • VOC .06%
Apply @ 45-95°F • Store above 45°F

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

ALL FIRE RETARDANTS DO IS PROLONG TIME TO IGNITION – NOTHING IS FIREPROOF

Field Application Process: The material to be treated must be clean & dry before treatment. Agitate FX Lumber Guard before and throughout the application. Apply as you receive it. Apply at **300-350 sf per gallon** with a Hudson yard sprayer (pump-up sprayer). Coverage will vary depending on the type of materials (new to old dried out). Vertical Application: Start from the bottom and work up, as there is less runoff this way. The drying time will vary from 8-32 hours, depending on weather and temperature. A fan may have to be applied to the drying area. 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). NOTE: All exposed sides on existing structures need treatment.

Field Testing of applied FX Lumber Guard (if no red colorant is present):

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 fire-retardant chemicals will show different signs than the untreated material.

The 2024 IBC recognizes the ASTM E2768 as alternate testing for FRTW. The 2021 and 2024 IBC states under the definition of Fire-Retardant Treated Wood, the following: Reference only: **"FIRE-RETARDANT-TREATED WOOD."** Wood products that, when impregnated with chemicals by a pressure process or other means during manufacture, exhibit reduced surface-burning characteristics and resist propagation of fire" (ASTM E84 Extended or ASTM E2768), both of which FX Lumber Guard fire-retardant penetrant has passed with a Class A results with reduced surface-burning characteristics and no flame progression beyond 10.5 feet of the center line of the burner at any time during the test.

FX Lumber Guard has been tested under the same test as FRTW, with passing results.

It's not the way you apply the fire retardant that makes it work, it's the test that proves it does.

