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 with water based products only.
- Treated dimensional lumber can be straight or crosscuts, 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: 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 then 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: ASTM D5516

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 for complete information.

Additional Class A Testing, Standards and Certifications

CSI Div. 06 05 73.33 Fire Retardant Wood Treatment

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 Hydroscopic Properties-19.9%	AWPA U1 UCFA Interior
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 / Finish able (with water based products only) ● Apply 45-95° F ● Store above 45° F

LOW VOC EMISIONS 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 you received it, 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 treated. (Vertical spraying) Start from the bottom and work up as there is less runoff 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 as follows: The treated substrate will not have distinctive observable features. Ensuring the treatment application of the material has been done correctly, a sample of the treated substrate must be tested. 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 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 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 top coat 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 IRRITAION - ALWAYS WEAR PERSONAL PROTECTION EQUIPMENT WHEN HANDLING THIS OR ANY CHEMICALS.