



### FIRE RETARDANT COATINGS OF TEXAS, LLC FX Lumber Guard and FX Lumber Guard XT

CSI Sections: 09 96 43 Fire-Retardant Coatings  
06 05 73.13 Fire-Retardant Wood  
Treatment

#### 1.0 RECOGNITION

FX Lumber Guard and FX Lumber Guard XT manufactured by Fire Retardant Coatings of Texas have been evaluated for use as fire-retardant coatings when applied to Southern Yellow Pine, Spruce-Pine-Fir, Hem Fir or Douglas Fir lumber or wood structural panels made of Oriented Strand Lumber (OSB) or Yellow Pine or Spruce-Pine-Fir. The fire-retardant coatings have been evaluated for surface burning characteristics. The Fire Retardant Coatings of Texas' FX Lumber Guard and FX Lumber Guard XT fire-retardant coatings evaluated in this report are satisfactory alternatives to the following codes:

- 2015, 2012 and 2009 International Building Code® (IBC)
- 2015, 2012 and 2009 International Residential Code® (IRC)
- 2015, 2012 and 2009 International Fire Code® (IFC)
- 2015, 2012 and 2009 International Existing Buildings Code® (IEBC)
- 2015, 2012 and 2006 NFPA 703

#### 2.0 LIMITATIONS

Use of FX Lumber Guard and FX Lumber Guard XT fire-retardant coatings recognized in this report are subject to the following limitations:

**2.1** Application of FX Lumber Guard and FX Lumber Guard XT fire-retardant coatings shall comply with NFPA 703 and the required fire-retardant properties shall be maintained or renewed in accordance with the manufacturer's instructions, in accordance with Section 803.4 of the IFC.

**2.2** FX Lumber Guard and FX Lumber Guard XT fire-retardant coatings have been evaluated for use in interior installations only. Use in exterior applications, surfaces subjected to washing, or sustained humidity of 80 percent or higher is beyond the scope of this report.

**2.3** Overcoating FX Lumber Guard and FX Lumber Guard XT is outside the scope of this report.

#### 3.0 PRODUCT USE

**3.1 General:** FX Lumber Guard and FX Lumber Guard XT Fire-Retardant Coatings shall be applied in accordance with this report, the manufacturer's installation instructions

and the applicable code. Where there is a conflict, the most restrictive shall govern.

**3.2** FX Lumber Guard and FX Lumber Guard XT are liquid applied by using rollers, brushes or sprayers in one-coat to surfaces that are clean, dry and free from dirt, grease, oil and prior coatings of paints, stains or sealers. The fire-protective coatings shall not be applied when the ambient temperature is below 45°F or above 95°F (7.2°C and 35°C, respectively). At time of application the moisture content of dimensional lumber shall not exceed 15 percent and the moisture content of plywood shall not exceed 19 percent. The coatings are applied at a coverage rate of 300 to 350 square feet per gallon (7.36 to 8.59 m<sup>2</sup>/L). Coatings have a cure time of between 8 and 32 hours depending on temperature and humidity.

**3.3** When applied over lumber of Southern Yellow Pine, Spruce-Pine-Fir, Hem Fir or Douglas Fir and when applied to Oriented Strand Board (OSB) or plywood of Southern Yellow Pine or Spruce-Pine-Fir, the lumber, OSB or plywood, as applicable, has an interior finish classification of Class A, in accordance with Section 803.1.1 of the IBC, and is a Class A Fire-Retardant Coating, in accordance with Section 3.3.1.1 of NFPA 703, with a flame spread index of 0-25 and a smoke-developed index of 0-200, when tested in accordance with ASTM E84.

**3.4** Application of the FX Lumber Guard and FX Lumber Guard XT fire-retardant coatings shall be by applicators approved by Fire Retardant Coatings of Texas, LLC after showing evidence that they possess the knowledge and equipment necessary to conform with the application procedures of Fire Retardant Coatings of Texas, LLC. A Certificate of Fire Retardant Treatment for each project, showing conformance with Fire Retardant Coatings of Texas' application instructions, shall be made available to the code official (see Figure 1 of this report for details).

**3.5** When required by the Authority Having Jurisdiction (AHJ) a field test of coated substrates shall be conducted consisting of subjecting a coated and uncoated substrate to a small flame source, such as a propane torch, for a period of not less than 15 seconds and observing the results. Treated substrates will form a layer of black char and will exhibit a reduced rate of flame spread.

#### 4.0 PRODUCT DESCRIPTION

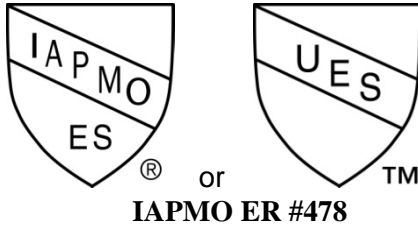
FX Lumber Guard and Lumber Guard XT are clear, water-based liquid applied fire-retardant coatings. The coatings are supplied in 1 quart, 1 gallon and 5 gallons (0.95L, 3.78L, and 18.9L, respectively) containers with a shelf-life of 3-years when stored in sealed containers at temperatures between 45°F and 95°F (7.2°C to 35°C).





## 5.0 IDENTIFICATION

Containers of FX Lumber Guard and FX Lumber Guard XT fire-retardant coatings are identified with the manufacturer's name (Fire Retardant Coatings of Texas, LLC), address, product name, manufactured date, shelf life, application instructions and Evaluation Report number (ER-478). Either Mark of Conformity may be used as shown below:



IAPMO ER #478

## 6.0 SUBSTANTIATING DATA

6.1 Data in accordance with NFPA 703 Standard for Fire Retardant Treated Wood and Fire Retardant Coating for Building Products, 2015 Edition.

6.2 Data in accordance with ICC-ES Acceptance Criteria for Surface-applied Fire Retardant Coatings (AC308), dated February 2007, editorially revised March 2012.

6.3 Reports of testing for surface burning characteristics in accordance with ASTM E84.

6.4 Reports of testing for extended duration (30 minutes) surface burning characteristics in accordance with ASTM E2768.

6.5 Test results are from laboratories in compliance with ISO/IEC 17025.

6.6 Manufacturer's descriptive literature and installation instructions.

## 7.0 CONTACT INFORMATION

**Fire Retardant Coatings of Texas, LLC**  
1150 Blue Mound Road West, Suite 403  
Haslet, Texas 76052  
(817) 710-5233  
[www.frctexas.com](http://www.frctexas.com)

## 8.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on Fire Retardant Coatings of Texas' FX Lumber Guard and FX Lumber Guard XT fire-retardant coatings to assess their conformance to the codes and standards shown in Section 1.0 of this report and documents the product's certification.

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Vice President, Technical Operations  
Uniform Evaluation Service

**Richard Beck, PE, CBO, MCP**  
Vice President, Uniform Evaluation Service

**GP Russ Chaney**  
CEO, The IAPMO Group

For additional information about this evaluation report please visit [www.uniform-es.org](http://www.uniform-es.org) or email at [info@uniform-es.org](mailto:info@uniform-es.org)



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## **FX LumberGuard**

### **Certificate of Fire Retardant Treatment**

To: \_\_\_\_\_

Date of Service: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Batch Code or Order No.: \_\_\_\_\_

This is to certify that the material described below was treated with FX Lumber Guard and has been applied in conformance with FRCT's application specifications and IAPMO UES ER-478.

Your (customers) Invoice # \_\_\_\_\_ dated \_\_\_\_\_ 20\_\_.

Description of material treated:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Square Foot Treated: \_\_\_\_\_ Spread Rate: 300-350 sf per gallon

Applicator:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ ST: \_\_\_\_\_ ZIP: \_\_\_\_\_

Phone: \_\_\_\_\_

Applicators Signature: \_\_\_\_\_



Fire Retardant Coatings of Texas is a federally registered trademark



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## FX LumberGuard XT®

### Certificate of Fire Retardant Wood Treatment

To: \_\_\_\_\_

Date of Service: \_\_\_\_\_

Batch Code or Order No.: \_\_\_\_\_

This is to certify that the material described below was treated with FX Lumber Guard XT and has been applied in conformance with FRCT's application specifications and IAPMO UES ER-478

Your (customers) Invoice # \_\_\_\_\_ dated \_\_\_\_\_ 20\_\_\_\_.

Description of material treated:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Square Foot Treated: \_\_\_\_\_ Spread Rate: 300-350 sf per gallon

Applicator:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ ST: \_\_\_\_\_ ZIP: \_\_\_\_\_

Phone: \_\_\_\_\_

Applicators Signature: \_\_\_\_\_



"Fire Retardant Coatings of Texas", "FX Lumber Guard / FX Lumber Guard XT" & "FRCT" Logo are federally registered trademarks of Fire Retardant Coatings of Texas, LLC