

ICC-ES Evaluation Report

ESR-2019

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A Subsidiary of the International Code Council®

DIVISION: 09—FINISHES**Section: 09960—High-Performance Coatings****REPORT HOLDER:**

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EVALUATION SUBJECT:**INSPECTA-SHIELD PLUS™ FIRE-RETARDANT COATING****1.0 EVALUATION SCOPE****Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)
- 2006 *International Fire Code*® (IFC)
- 2006 *International Existing Building Code*® (IEBC)

Property evaluated:

Surface-burning characteristics

2.0 USES

Inspecta-Shield Plus™ is a fire-retardant coating, as defined in IFC Section 803.4, that is field-applied by applicators certified by Northeast Fireshield, Inc., to exposed surfaces of unfinished plywood and dimensional white pine lumber as an interior finish in the interior of new and existing construction to achieve the flame-spread and smoke-developed indices required by the applicable code.

3.0 DESCRIPTION

Inspecta-Shield Plus™ is a colorless chemical finish for interior use. The product comes in 1-quart (1.0 L), 1-gallon (3.8 L), and 5-gallon (18.9 L) containers and 55-gallon (208 L) drums with a shelf life of two years from the date of manufacture when the containers are unopened.

4.0 INSTALLATION**4.1 General:**

Installation of Inspecta-Shield Plus™ must comply with this report and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation.

The surface to be coated must be free of dust, dirt, oil, paint, stain, varnish or sealant. The product is not for use on surfaces that may be subjected to washing or sustained humidity of 80 percent or more. The product must be thoroughly mixed before being transferred to the spray apparatus and prior to application. The product is applied by air-spray application in one coat. The air temperature for application shall be limited to a minimum of 33°F (0.6°C) and a maximum of 120°F (49°C). The maximum moisture content for the substrate is 25 percent. The cure time for the fire-retardant coating is 48 hours.

4.2 Application and Surface Burning Characteristics:

When applied to dimensional white pine lumber or unfinished plywood at a coverage rate of 300 square feet per gallon (7.36 m²/L) with a dry film coating thickness of 3 mils [0.003 inch (0.09 mm)], the product provides a flame-spread index of 25 or less and a smoke-developed index of 200 or less when tested in accordance with ASTM E 84, and qualifies as a Class A finish in accordance with NFPA 703.

The flame-spread and smoke-development indices are applicable when the coating is overcoated with two layers of acrylic paint or one layer of wood stain overcoated with one layer of polyurethane.

4.3 Field Test:

An ultraviolet chemical is added to the product for the purpose of aiding in the identification of the product after application. This chemical makes the product visible using a black light after the product has dried for 48 hours.

5.0 CONDITIONS OF USE

The Inspecta-Shield Plus™ fire-retardant coating described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation must comply with this report, the manufacturer's published instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2** Application must be limited to construction of the specific substrates set forth in Section 2.0, to exposed interior locations having a sustained humidity of less than 80 percent.
- 5.3** Field testing must be performed by the certified applicator, as indicated in Section 4.3, when required by the code official.

- 5.4 A manufacturer's Certificate of Flameproofing, as shown in Figure 1, must be submitted by the certified applicator to the code official, describing the material treated; the location of the treated materials, including the square footage of the area treated; and the application rate.
- 5.5 Special inspections may be required when determined to be necessary by the code official in accordance with IBC Section 1704.13.
- 5.6 The coating is manufactured in Dracut, Massachusetts, under a quality control program with inspections by Underwriters Laboratories Inc. (AA-668).

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Surface-applied Fire-retardant Coatings (AC308), dated February 2007.

7.0 IDENTIFICATION

Containers of Inspecta-Shield Plus™ are identified by a label bearing the manufacturer's name (Northeast Fireshield, Inc.) and address, the product name, the date of manufacture, shelf life, the manufacturer's instructions for application, the name of the inspection agency (Underwriters Laboratories Inc.) and the evaluation report number (ESR-2019).

Certificate of Flameproofing

To:

This is to certify that the following items have been flame-proofed:

With the flame-proofing products: _____

And are rated:

Certificate Number: _____ Date: _____



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FIGURE 1—MANUFACTURER'S CERTIFICATE OF FLAMEPROOFING