Plus *Spray Seal*™

Intumescent Coating

OSB, Plywood, I-joists, Lumber Materials, and Concrete Block

PRODUCT DESCRIPTION

No-Burn Plus *Spray Seal*™ is a single-component water-based intumescent coating and air/water-resistive barrier for use over OSB, plywood, I-joists and lumber materials, and for use as a component within an exterior wall system. As an equivalent to FRTw and a component within a 1-hour and 2-hour wall assemblies, Plus Spray Seal also provides resistance to air leakage and water penetration while allowing vapor transmission through the substrate. Additionally, Plus *Spray Seal*™ provides durability and UV protection for up to 6 months. Multiple features in one product application, Plus *Spray Seal*™ significantly reduces product costs, labor costs, and building cycle time.

PRODUCT SPECIFICATIONS

Color:	Light Gray/Tinted
	Light Gray | **Tinted**
Finish:	Flat
pH:	7-9
Film Thickness:	16 wet mils, one pass
Coverage:	100 sq. ft. per gallon
Dry Time:	60-90 minutes
Overcoat:	Water-based with pH of 7-9
Safety:	Plus *Spray Seal*™ Safety Data Sheet
VOC Content:	18 g/L

PACKAGING/STORAGE

Pails:	5 gallons (19 L), 58.5 lbs.
Drums:	55 gallon drum (208 L), net 45 gallons (170 L) 586.5 lbs
Shelf Life:	12 months in unopened sealed containers, properly stored
Storage:	40°F (4°C) – 90° F (32°C)
	Best Practices for Safe Handling & Storage

PLUS *SPRAY SEAL*™

Code Requirement	Compliance
Interior Finish	Flame Spread (FS) 0-5 Smoke Development (SD) 0-35 Class A: TER 2010-01
Surface Burning Characteristics	FRTw Alternative: TER 2010-01
Fire Resistance/ Loaded 1-hour Wall Assembly	60 Minutes, Zero Lot Line, <5 ft. fire separation distance. Equivalent to UL Design No. U305 TER 2010-01
Fire Resistance/ Loaded 2-hour Wall Assembly	120 Minutes Equivalent to UL Design No. U349 TER 2010-01, CL 2302-04
Fire Resistance/ Fire Protection of Floors	2" x 10" Dimension Lumber Equivalent: TER 2010-01
Vapor Transmission	Water Method(B) 5 perms Vapor Semi-permeable
Air Barrier	<0.02 L/s.m^2
Water-Resistive Barrier/ Water Penetration	ASTM E331, passed, no leakage
Durability	UV and Weather, up to 6 months

Code-compliant solutions. Life-saving protection

No-Burn, Inc.
SALES INFORMATION AND ORDER PLACEMENT
1-800-989-8577
TECHNICAL INFORMATION
1-800-989-8577
www.noburn.com

NO-BURN®

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PATENT PENDING

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SECTION 099646 - INTUMESCENT PAINTING
SECTION 072726 – FLUID-APPLIED AIR BARRIERS
PART 1 – GENERAL

1.1 SUMMARY
- A. Section Includes:
  1. Intumescent paint for [interior] [and] [exterior] items and surfaces.
- B. Related Requirements:
  1. Section 072500 “Weather Barriers” for weather barriers.
  2. Section 078123 "Intumescent Fire Protection" for fire-resistance-rated intumescent mastic materials.
  3. Section 099113 "Exterior Painting" for primers and finish coats that may be used with intumescent paint finishes.
  4. Section 099123 "Interior Painting" for primers and finish coats that may be used with intumescent paint finishes.
  5. Section 099300 "Staining and Transparent Finishing" for primers, finish coats, and wood stains that may be used with intumescent paint finishes.
  6. Section 099633 "High-Temperature-Resistant Coatings" for special coatings designed for use on steel subject to extremely high temperatures.

1.2 PREINSTALLATION MEETINGS
- A. Preinstallation Conference: Conduct conference at [Project site] <Insert location>.

1.3 ACTION SUBMITTALS
- A. Product Data: For each type of product.
  1. Fire propagation characteristics.
  2. Fire Rated Assembly.
  3. Air barrier.
  4. Water-Resistive Barrier.
  5. Indicate VOC content.
- B. Sustainable Design Submittals:
  1. Product Data: For paints and coatings, indicating VOC content.
  2. Evaluation Reports or Certificates: For paints and coatings, indicating compliance with requirements for low-emitting materials.
- C. Samples: For each type of product.
- D. Samples for Initial Selection: For each type of product.
- E. Samples for Verification: For each type of coating system and each color and gloss of intumescent paint finish indicated.
  1. Submit Samples on [rigid backing] [actual substrate], not less than 8 inches (200 mm) square.
  2. Apply coats on Samples in steps to show each coat required for system.
  3. Label each coat of each Sample.
  4. Label each Sample for location and application area.
- F. Product Finish Schedule: Use same designations indicated on Drawings and in Part 3 intumescent painting schedules to cross-reference paint systems specified in this Section. Include color designations.

1.4 INFORMATIONAL SUBMITTALS
- A. Evaluation Reports or Listings: For each intumescent paint and coating, indicating compliance with fire-propagation and air barrier requirements.

1.5 MOCKUPS
- A. Mockups: Apply mockups of each paint system indicated to verify preliminary selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
  1. Architect will select one surface to represent surfaces and conditions for application of each paint or coating system.
     a. Wall and Ceiling Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
     b. Other Items: Architect will designate items or areas required.
  2. Final approval of color selections will be based on mockups.
     a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
  3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
  4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING
- A. Comply with intumescent paint or coating manufacturer's written instructions for products and applications as indicated on product labels, product data sheets, and application guidelines.

1.7 FIELD CONDITIONS
- A. Apply waterborne intumescent paints only when temperatures of surfaces to be painted and ambient air temperatures are between 40 and 90 deg F (4.4 and 32 deg C).
- B. Surface temperatures of substrates to not exceed 100 deg F (37.7 deg C).
- C. Ideal installation temperature is 65 deg F (18.3 deg C) and less than 60 percent relative humidity.
- E. Allow wet surfaces to dry thoroughly and to attain temperature and conditions specified before starting or continuing intumescent paint application.

PART 2 - PRODUCTS

2.1 MANUFACTURERS
- A. Basis-of-Design Product: Subject to compliance with requirements, provide No-Burn, Inc.; [Plus] [Plus Spray Seal] intumescent paint.
- B. Performance Criteria:
  1. Finish: Flat.
  2. Color: White or Gray.
  3. Low-VOC Content: 18 g/L or less of water in accordance with EPA Method 24.
  4. Solids by Volume: 60-70 percent.

2.2 INTUMESCENT PAINT PRODUCTS, GENERAL
- A. Comply with requirements for fire-protective intumescent coating classification and air barrier characteristics indicated.
- B. Surface-Burning Characteristics for Wood - 30-Minute Tunnel Test: As tested in accordance with ASTM E84 or ASTM E2768; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
  1. Flame Front Maximum Reach: 10 ft. (3.048 m).
  2. Evidence of Continued Combustion: None, when test continued for 30 minutes.
  3. Classification: Fire Retardant Treated Wood (FRTw) equivalent and complies with definition of an ignition-resistant material.
- C. 1-hour or 2-hour load bearing wall assembly in accordance with ASTM E119.
- D. Air Barrier Performance: Complies with ASTM E2178 maximum 0.02 L/S/M2 testing by a qualified testing agency. Identify products with appropriate markings of applicable approval agency.
- E. Water-Resistive Barrier in accordance with ASTM E331.
- F. Material Compatibility:
  1. For each material or application, provide products recommended in writing by intumescent paint manufacturer for use on substrate indicated.
- G. Low-Emitting Materials: Interior paints and coatings to comply with the testing and product requirements of the California Department of Public Health's "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."
- H. Colors and Sheen: [White, flat] [Gray, flat] [Tinted, flat] [As selected by Architect from manufacturer's full range] [As indicated in a color schedule].

PART 3 - EXECUTION

3.1 EXAMINATION
- A. Examine substrates and conditions, for compliance with manufacturer's requirements for surface treatments, shop-primed surfaces, maximum moisture content, and other conditions affecting performance of the Work.

3.2 PREPARATION
- A. Comply with manufacturer's written instructions applicable to substrates and coating systems indicated.
- B. Remove hardware and hardware accessories, plates, machined surfaces, light fixtures, and similar items already installed that are not to be coated. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and coating.
  1. After completing coating application, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease, and incompatible paints and encapsulants. Do not coat surfaces if surface moisture content or alkalinity exceeds that permitted in manufacturer's written instructions.
  1. Remove incompatible primers, and reprime substrate with compatible primers as required to produce coating systems indicated.
  2. Perform cleaning and coating application so dust and other contaminants from cleaning process do not fall on wet, newly coated surfaces.

3.3 INSTALLATION
- A. Apply intumescent paints in accordance with manufacturer's written instructions and to comply with requirements for evaluations, listings, and labels.
  1. Use equipment and techniques best suited for substrate and type of material being applied.
- B. Apply coatings to prepared surfaces as soon as practical after preparation.
- C. Apply coatings to produce surface films without holidays, laps, sags, or other surface imperfections. Produce sharp lines.

3.4 CLEANING AND PROTECTION
- A. Protect work of other trades from coating application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- B. At completion of construction activities of other trades, touch up and restore damaged or defaced coated surfaces.

3.5 EXTERIOR INTUMESCENT PAINTING SCHEDULE
- A. Wood Substrates, Solid Sawn Lumber and Sheathing:
  1. Surface-Burning Characteristics, 1 – 2-hour Wall Assembly, Air Barrier, and Water Resistive Barrier:
     a. Intumescent Paint: As recommended in writing by manufacturer.
        1) No-Burn, Inc.: No-Burn Plus Spray Seal.
- B. Wood Substrates, Engineered Wood Lumber and Sheathing:
  1. Surface-Burning Characteristics, 1 – 2-hour Wall Assembly, Air Barrier, and Water Resistive Barrier:
     a. Intumescent Paint: As recommended in writing by manufacturer.
        1) No-Burn, Inc.: No-Burn Plus Spray Seal.
- C. Concrete Block:
  1. Air Barrier:
     a. Intumescent Paint: As recommended in writing by manufacturer.
        1) No-Burn, Inc.: No-Burn Plus Spray Seal.

3.6 INTERIOR INTUMESCENT PAINTING SCHEDULE
- A. Wood Substrates, Solid Sawn Lumber and Sheathing:
  1. Surface-Burning Characteristics, 1 - 2-hour wall assembly:
     a. Intumescent Paint: As recommended in writing by manufacturer.
        1) No-Burn, Inc.: No-Burn Plus.
- B. Wood Substrates, Engineered Wood Lumber and Sheathing:
  1. Surface-Burning Characteristics, 1 – 2-hour wall assembly:
     a. Intumescent Paint: As recommended in writing by manufacturer.
        1) No-Burn, Inc.: No-Burn Plus.

END OF SECTION 072726 AND SECTION 099646