

PRODUCT DESCRIPTION

Manufactured in compliance with ISO 9001, as a certified intumescent coating, Plus XD is applied to spray polyurethane foam insulation, achieving ignition barrier fire performance prescribed for attics and crawl spaces. No-Burn Plus XD is an International Building, International Residential, and National Fire Protection Association Life Safety 101 thin film intumescent coating. When exposed to high temperatures and flame, Plus XD intumesces creating a char-barrier protecting treated substrates from fire.

ABOUT US

No-Burn intumescent coatings provide the high-performance, code-compliant fire protection needed in new and existing residential and commercial construction. In the presence of extreme heat or fire, intumescent coatings char and swell up to multiple times their original thickness, which shields the substrate and significantly reduces its rate of combustion.

Designed with the professional in mind, our simple one-coat spray application achieves the code compliance you need with a water-based, low VOC emission formula, available in light gray and may be tinted darker.

PRODUCT SPECIFICATIONS

- Color: Light Gray/Tinted
- Finish: Flat
- pH: 7-8
- Application: [Plus XD Technical Data Sheet \(TDS\)](#)
- Film Thickness: Reference Code and Compliance Report
- Dry Time: 60-90 minutes
- Overcoat: Water-based with pH of 7-8
- Safety: [Plus XD Safety Data Sheet \(SDS\)](#)
- VOC Content: 18 g/L
- VOC Emissions: [CDPH \(CA Spec 01350\) Compliant](#)



PACKAGING/STORAGE

- Pails: 5 gallons (19 L), 55 lbs.
- Drums: 55 gallon drum (208 L), 605 lbs.
- Shelf Life: 24 months in unopened sealed containers, properly stored
- Storage: 40°F (4°C) – 90°F (32°C)
[Best Practices for Safe Handling & Storage](#)

PLUS ThB

Code Requirement	Compliance
Ignition Barrier Assembly/ Interior Finish	5± minutes: ER-305 , TER 1905-03
Vapor Retarder	5 perms, Class III
USDA Incidental Food Contact	ANSI/NSF 51 Food Zone Materials

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

TRADEMARKS No-Burn, No-Burn logo and Fire Wise are trademarks owned by or licensed to No-Burn, Inc.

LIMITED WARRANTY No-Burn, Inc. warrants that the No-Burn formula will be manufactured to the same specifications and quality, and will perform equally to the tests performed by the independent laboratories when properly applied. Warranty coverage is limited solely to the cost of product purchased hereunder and specifically excludes incidental expenses and consequential damages. The applicator warrants that the product, in its original form from the Manufacturer, will be stored, mixed and/or applied as directed in the guidelines published by No-Burn, Inc., to every reasonably accessible area that has been specified for protection. All implied warranties, from No-Burn, Inc. or the applicator are excluded. There may be situations and materials for which No-Burn will not prevent a fire from igniting or retard the progress of a fire.

POLICY & PROCEDURES All sales of this product by No-Burn, Inc. are subjected to our Policy & Procedures available at <http://noburn.com/policies-procedures>

UPDATES AND CURRENT INFORMATION Revised 21-Dec-2020. The information in this document may change without notice.



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PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Intumescent Paint:

1. Intumescent paint applied to spray applied polyurethane foam plastic insulation as an Alternative Ignition Barrier.

1.2 RELATED SECTIONS:

- A. Division 01: Administrative, procedural, and temporary work requirements.
- B. Section 09 96 46 – Intumescent Paint
- C. Section 07 21 19 – Foamed-In-Place Insulation

1.3 REFERENCES

- A. ASTM International (ASTM):
 1. ASTM E96– Standard Test Methods for Water Vapor Transmission of Materials
- B. California Department of Public Health
 1. CDPH/EHLB/Standard Method Version 11, 2010 (Emission testing method for CA Specification 01350)– Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers
- C. DrJ Engineering, LLC
 1. Technical Evaluation Report (TER) 1905-03
- D. International Association of Plumbing and Mechanical Officials (IAPMO) Building Products Evaluations (The IAPMO Group) IAPMO Uniform Evaluation Service (UES):
 1. Evaluation Report (ER) #305
- E. International Code Council (ICC) ICC Evaluation Service (ICC-ES):
 1. AC377– Acceptance Criteria for Spray-applied Foam Plastic Insulation
 2. IAPMO 1000– Standard for Building Code Compliance of Spray-applied Polyurethane Foam
 3. ICC 1100– Standard for Spray-applied Polyurethane Foam Plastic Insulation
- F. National Fire Protection Association (NFPA):
 1. NFPA 286– Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth
- G. Underwriter's Laboratories, Inc. (UL):
 1. UL 723– Test for Surface Burning Characteristics of Building Materials
 2. UL 1715– Fire Test of Interior Finish Material
 3. CAN/ULC S102– Standard Method of Test for Surface Burning Characteristics of Flooring, Floor Coverings and Miscellaneous Materials

1.4 SUBMITTALS

A. Submittals for Review:

1. Product Data:
 - a. IAPMO [Evaluation Report #305](#)
 - b. DrJ [Technical Evaluation Report #1905-03](#)
 - c. No-Burn [Product sell sheet](#)
 - d. Plus XD [Technical Data Sheet \(TDS\)](#)
 - e. Plus XD [Safety Data Sheet \(SDS\)](#)
 - f. Low VOC content and [low VOC emissive](#)
 - g. Additional information

B. Manufacturer's Certification:

1. Product Evaluation Report(s): Submit Manufacturer's product evaluation report from accredited Evaluation Service.
2. Manufacturer determines Qualification and Certification.

C. Manufacturer's Project References: Submit Manufacturer's list of 5 successfully completed polyurethane foam insulation projects of similar size and scope, including project name and location, name of architect, and type and quantity of materials furnished, as available.

D. Applicator's Project References: Submit applicator's list of successfully completed polyurethane foam insulation projects, including project name and location, name of architect, and type and quantity of material applied, as available.

E. Warranty Documentation: Submit Manufacturer's Warranty.

1.5 QUALITY ASSURANCE

A. Manufacturer's Qualifications:

1. Manufacturer shall have quality assurance program, ISO 9001 with proof of certification submitted upon request.
2. Manufacturer regularly engaged for a minimum of 20 years, in the manufacturing of intumescent coating.

B. Applicator Qualifications:

1. Applicator regularly engaged in the installation of spray polyurethane foam insulation and the application of intumescent coating or similar product types.
2. Educated on the application of intumescent coating or similar product types.

C. Source Limitations: Provide each type of intumescent coating from a single Manufacturer.

- D. Mock-up: Construct mock-up, with actual materials, as preferred by the owner, architect or construction manager.
 1. Intent of mock-up is to demonstrate quality standards for material, quality of workmanship, and visual appearance.
 2. Retain mock-up during construction as a standard for comparison with completed work.

1.6 PRE-INSTALLATION CONFERENCE

- A. Schedule a meeting as preferred by the owner, architect or construction manager, prior to the start of work, to address the specifics of site preparation, installation, coordination, closeout, etc.

1.7 DELIVERY, STORAGE AND HANDLING

- A. Delivery Requirements: Deliver materials to the site when [Best Practices for Safe Handling & Storage](#) may be maintained and in Manufacturer's original, unopened pails or drums, with labels clearly identifying product name and Manufacturer.
- B. Storage and Handling: Ensure materials are not subjected to freezing temperatures and confirm [Best Practices for Safe Handling & Storage](#) prior to delivery or storage.
- C. Container Label: Include Manufacturer's name and address, product name, batch number, expiration date, application instructions, name or logo of Intertek Testing Services NALTD, and current Evaluation Report.

1.8 PROJECT CONDITIONS

- A. Application: Surface, ambient temperatures and relative humidity as required by Manufacturer. Protect product from freezing during storage, transportation to and use on site. Ideal installation temperatures are 65 degrees Fahrenheit and less than 60% relative humidity. Surface and ambient temperatures before and during application shall be 40°F (4.4°C) minimum. Surface temperatures shall not exceed 100°F (37.7°C) during application.
- B. Exposure Controls: Use appropriate engineering controls, such as proper ventilation during application. Where such systems are not effective, wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards, [Spraying Intumescent Coatings & Equivalent N95 Particulate Respirators](#).
- C. Recycling: Non-hazardous paint container free of paint or debris. Pails may be recycled in accordance with your local recycling and waste management requirements. If construction includes deconstruction and reclamation of plastic construction products, it may be necessary to sort plastics according to designations.
- D. Additional Considerations: Refer to the Manufacturer's Technical Data Sheet. Downloadable from the No-Burn, Inc. website: [Plus XD Technical Data Sheet \(TDS\)](#).

1.9 WARRANTY

- A. Manufacturer's Standard Limited Warranty: No-Burn, Inc. warrants that the No-Burn formula will be manufactured to the same specifications and quality, and will perform equally to the tests performed by the independent laboratories when properly applied. Warranty coverage is limited solely to the cost of product purchased hereunder and specifically excludes incidental expenses and consequential damages. The applicator warrants that the product, in its original form from the Manufacturer, will be stored, mixed and/or applied as directed in the guidelines published by No-Burn, Inc., to every reasonably accessible area that has been specified for protection. All implied warranties, from No-Burn, Inc. or the applicator are excluded. There may be situations and materials for which No-Burn will not prevent a fire from igniting or retard the progress of a fire.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: No-Burn, Inc., which is located at: 1392 High Street, Suite 211, Wadsworth, Ohio 44281. Tel: 800-989-8577, Email: info@nuburn.com, Web: www.nuburn.com.
- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 FIRE PROTECTIVE INTUMESCENT IGNITION BARRIER COATING

- A. Basis-of-Design Product: Plus XD, as manufactured by No-Burn, Inc.
 1. Performance and Design Requirements:
 - a. Standards Compliance:
 - 1) Acceptance Criteria: AC377 Appendix X, IAPMO 1000 & ICC 1100
 - 2) Interior Finish Classification: NFPA 286
 - 3) Evaluation Reports: IAPMO [ER-305](#) and DrJ [TER 1905-03](#)
 - b. Finish: Flat
 - c. Color: Light Gray
 - d. VOC Content: 18 g/L
 - e. Low VOC Emissive, [CA Specification 01350](#)
 - f. Dry Time: 60-90 minutes
 - g. Shelf Life: 24 Months
 - h. Cure Time: 24 Hours
 - i. % Volatile by Volume: 36%
 - j. Viscosity: 16,000 cP
 - k. Specific Gravity: 1.25
 - l. Acceptable substrates: as indicated in [ER-305](#) or [TER 1905-03](#)
 - m. Wet mil thickness: as indicated in [ER-305](#) or [TER 1905-03](#)
 - n. May be overcoated with latex paint with a pH of 7 to 8
 - o. Complies with USDA requirements for incidental food contact and ANSI/NSF 51 Food Zone Materials
 2. Description: Fire protective intumescent coating formulated for application over spray polyurethane foam for ignition barrier protection.

B. Accessories:

1. Overcoats: Overcoats may be required in applications subject to exterior temperature and humidity conditions. The Manufacturer may

and should be contacted. Overcoats shall be water-based with a pH of 7-8. Prior to the use of any overcoat, it is recommended that an inconspicuous area be tested for compatibility before widespread application. Compatibility may be noted as the overall satisfactory condition of the Substrate(s) once No-Burn Plus THB and an overcoat have been applied.

2. Follow application and overcoat instructions located on the Manufacturer's: Plus XD [Technical Data Sheet \(TDS\)](#).

PART 3 – EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- A. Comply with Manufacturer's written recommendations, such as technical data sheets: Plus XD [Technical Data Sheet \(TDS\)](#), [Best Practices for Safe Handling & Storage](#) and application aids.

3.2 EXAMINATION

- A. Examine areas to receive intumescent coating.
- B. Do not begin surface preparation or application until unacceptable conditions are corrected.
- C. Remove incompatible primers or coatings and apply compatible primers or coatings, as recommended.

3.3 PREPARATION

- A. Prepare surfaces in accordance with Manufacturer's instructions.
- B. Cover or protect any adjacent and underlying surfaces not intended to have intumescent coating.
- C. Remove dust, dirt, and loose and foreign matter that could affect adhesion or performance of coating.
- D. Utilize medallions at regular intervals on all surfaces to be coated to verify wet mil coating thickness.

3.4 INSTALLATION

- A. Apply coatings in accordance with Manufacturer's [Evaluation Report #305](#) or [Technical Evaluation Report #1905-03](#). Consult the appropriate Technical Data Sheet for information on Storage, Mixing and Application from No-Burn, Inc. located on the Manufacturer's (website): Plus XD [Technical Data Sheet \(TDS\)](#).
- B. Apply coatings immediately after surface and application preparation is complete.
- C. Do not apply coatings to surfaces that are not dry, cured or within the recommended moisture content(s).
- D. Apply coatings at minimum coverage rates required by the Manufacturer or authorities having jurisdiction.
- E. Touch-up any damaged areas.

3.5 FIELD QUALITY CONTROL

- A. Verify wet film thickness to ensure correct minimum coverage rate.
- B. Utilize wet film thickness gauge, at regular intervals during the application of coating along with medallions as a means of measuring wet and dry film thickness.
- C. Prior to the application of a topcoat, verify minimum wet film thickness with appropriate project stakeholders.
- D. Coating pails may remain onsite to verify coating installed.
- E. Complete daily work record(s) noting coating application thickness and other necessary information.

3.6 CLEANING AND PROTECTION

- A. Use soap and water for clean-up.
- B. Remove any coverings, protection or masking; dispose of coverings, protection and masking appropriately on or off-site.
- C. If cleaning-up intumescent coating overspray, use hot water, a mild degreaser, and a strong bristled brush.
- D. Hot water and a mild degreaser may be used to clean your equipment; if a mild degreaser is used, flush lines with five-gallons or more of hot water.
- E. Recycle or remove coating pails or drums when instructed by foreman, site superintendent or project manager.

END OF SECTION



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