



NO-BURN[®]

Plus ThB, Plus XD & Plus

Intumescent Coatings



Made in the USA



INTUMESCENT COATINGS

PRODUCT DESCRIPTION

No-Burn Plus ThB 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 ThB intumesces creating a char-barrier protecting treated substrates from fire. Manufactured in compliance with ISO 9001, as a certified intumescent coating, Plus ThB is applied to spray polyurethane foam insulation, achieving the fire performance prescribed.

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 white and tinted coloring.

PRODUCT SPECIFICATIONS

Color: White/Gray/Dark Charcoal/Tinted

White	Gray	Dark Charcoal
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Finish: Flat

pH: 7-8

Application: [Plus ThB 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 ThB Safety Data Sheet \(SDS\)](#)

VOC Content: 18 g/L

VOC Emissions: [CDPH \(CA Spec 01350\) Compliant](#)



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 ThB

Code Requirement	Compliance
Thermal Barrier Assembly	15 minutes: ER-305 , TER 1905-03
Ignition Barrier Assembly	5± minutes: ER-305 , TER 1905-03
Exterior Rated Wall Assembly	Intertek Design Listing: BASF/FI 30-90
Interior Finish	FS 0 SD 10, Class A
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 4-Dec-2020. The information in this document may change without notice.

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DESCRIPTION

The certified design listing is considerably flexible in its ability to achieve 1, 2 or 3-hour Exterior Wall Assembly Ratings. Versatility is most obvious in the assemblies' approach to building with common load or non-load bearing Base and Exterior Wall Key Features. This assembly or any assemblies configured with these components is code-compliant meeting the requirements of the National Fire Protection Association Standard (NFPA) 285 for commercial buildings of any height.

ABOUT US

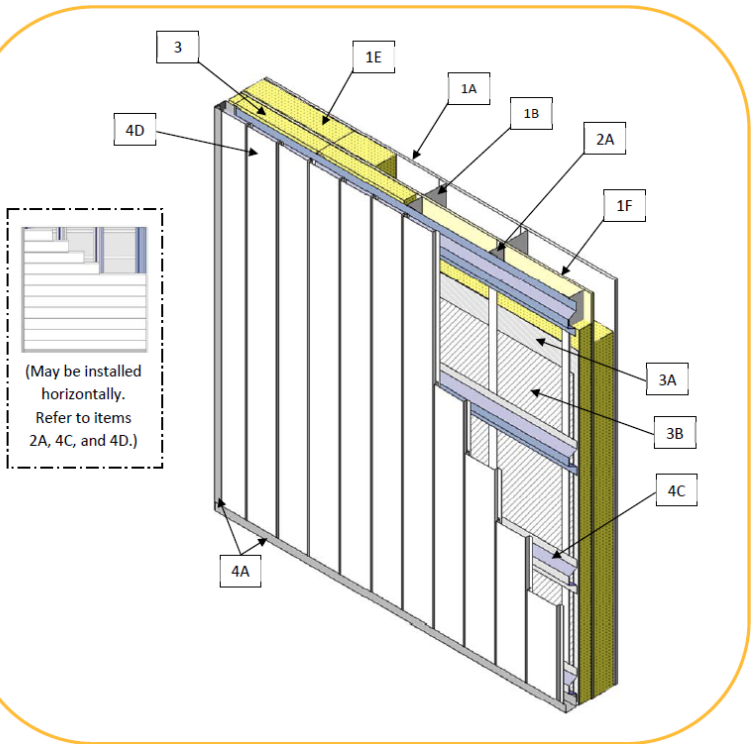
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Designed with the professional in mind, our simple one-coat spray application achieves the code compliance you need with a water-based, low VOC emission formula, available in white and tinted coloring.

KEY FEATURES OF THE CERTIFIED DESIGN LISTING

Interior Base Wall Load or Non-load Bearing

- > 1, 2 and 3-hour rated assemblies with one or multiple sheets of 5/8" Type X GWB.
- > Steel studs or non-steel studs: 2x4, 2x6 or other non-combustible base materials, such as concrete, CMU block, etc.
- > Cavity insulation: full-fill or partial-fill: WALLTITE LWP, WALLTITE US, SPRAYTITE COMFORT, ENERTITE G, non-combustible insulation or no insulation.
- > Exterior Sheathing: 1/2" Fiberglass Mat Ext. GWB, any Fiberglass Mat Ext. GWB (ASTM C1177 compliant) min. 1/2" thick, cement board or other non-combustible sheathing.



The certified or listed design can be found in:

[Intertek Design Listing No. BASF/FI 30-09](#),
[Code Compliance Research Report \(CCRR\) 1031, 1032 & 0374](#)

Exterior Wall Load or Non-load Bearing

- > 3 1/2" exterior insulation or continuous insulation: WALLTITE LWP or WALLTITE US.
- > 20 gauge aluminum flush/architectural wall panels or a thicker metal, combustible cladding oriented vertically or horizontally.
- > 15 wet mils of No-Burn Plus ThB intumescent coating with a 6 wet mil overcoat of exterior paint permits the use of the combustible flush or architectural wall panels.
- > Sealant at typical locations with weep holes permitted.

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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 Thermal Barrier.
2. Intumescent paint applied to spray applied polyurethane foam plastic insulation as an Alternative Ignition Barrier.
3. Intumescent paint applied to spray applied polyurethane foam plastic insulation in an Exterior Rated Wall Assembly.

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 E84 – Standard Test Method for Surface Burning Characteristics of Materials
2. 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. FM Approvals LLC

1. FM 4880 – Approval Standard for Class 1 Fire Rating of Building Panels or Interior Finish Materials

E. International Association of Plumbing and Mechanical Officials (IAPMO) Building Products Evaluations (The IAPMO Group) IAPMO Uniform Evaluation Service (UES):

1. Evaluation Report (ER) #305

F. International Code Council (ICC) ICC Evaluation Service (ICC-ES):

1. AC377 – Acceptance Criteria for Spray-applied Foam Plastic Insulation
2. AC456 – Acceptance Criteria for Fire-protective Coatings Applied to Spray-applied Foam Plastic Insulation Installed Without a Code-prescribed Thermal Barrier
3. IAPMO 1000 – Standard for Building Code Compliance of Spray-applied Polyurethane Foam
4. ICC 1100 – Standard for Spray-applied Polyurethane Foam Plastic Insulation

G. Intertek:

1. Design Listing No. BASF/FI 30-09

H. 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
2. NFPA 285 – Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components

I. Underwriter's Laboratories, Inc. (UL):

1. UL 723 – Test for Surface Burning Characteristics of Building Materials
2. UL 1040 – Standard for Fire Test of Insulated Wall Construction
3. UL 1715 – Fire Test of Interior Finish Material
4. 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. Intertek Design Listing [No. BASF/FI 30-09](#)
 - d. No-Burn [Product sell sheet](#)
 - e. Plus ThB [Technical Data Sheet \(TDS\)](#)
 - f. Plus ThB [Safety Data Sheet \(SDS\)](#)
 - g. Low VOC content and [low VOC emissive](#)
 - h. 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 ThB 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@noburn.com, Web: www.noburn.com.

B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 FIRE PROTECTIVE INTUMESCENT THERMAL BARRIER COATING

A. Basis-of-Design Product: Plus ThB, as manufactured by No-Burn, Inc.

1. Performance and Design Requirements:

- a. Standards Compliance:
 - 1) Acceptance Criteria: AC377/AC456, IAPMO 1000 & ICC 1100, UL 1715, NFPA 286, FM 4880, UL 1040
 - 2) Interior Finish Classification: ASTM E84 & UL 723 FSI<25 and SDI<450, NFPA 286, UL 1715
 - 3) Evaluation Reports: IAPMO [ER-305](#) and DrJ [TER 1905-03](#)

b. Finish: Flat

c. Color: [White] [Gray] [Dark Charcoal]

d. VOC Content: 18 g/L

e. Low VOC Emissive, [CA Specification 01350](#)

f. Dry Time: 60-90 minutes

g. Shelf Life: 12 Months

h. Cure Time: 24 Hours

i. % Volatile by Volume: 33%

j. Viscosity: 20,000 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 thermal 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 ThB [Technical Data Sheet \(TDS\)](#).

2.3 FIRE PROTECTIVE INTUMESCENT IGNITION BARRIER COATING

A. Basis-of-Design Product: Plus ThB, 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: ASTM E84 & UL 723 FSI<25 and SDI<450, NFPA 286, UL 1715
- 3) Evaluation Reports: IAPMO [ER-305](#) and DrJ [TER 1905-03](#)

b. Finish: Flat

c. Color: [White] [Gray] [Dark Charcoal]

d. VOC Content: 18 g/L

e. Low VOC Emissive, [CA Specification 01350](#)

f. Dry Time: 60-90 minutes

g. Shelf Life: 12 Months

h. Cure Time: 24 Hours

i. % Volatile by Volume: 33%

j. Viscosity: 20,000 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 ThB [Technical Data Sheet \(TDS\)](#).

2.4 EXTERIOR RATED WALL ASSEMBLY

A. Basis-of-Design Product: Plus ThB, as manufactured by No-Burn, Inc.

1. Performance and Design Requirements:

a. Standards Compliance:

- 1) NFPA 285 – Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components, Intertek Design Listing, Intertek Design Listing No. [BASF/FI 30-09](#)
- 2) Evaluation Reports: IAPMO [ER-305](#) and DrJ [TER 1905-03](#)

b. Finish: Flat

c. Color: [White] [Gray] [Dark Charcoal]

d. VOC Content: 18 g/L

e. Low VOC Emissive, [CA Specification 01350](#)

f. Dry Time: 60-90 minutes

g. Shelf Life: 12 Months

h. Cure Time: 24 Hours

i. % Volatile by Volume: 33%

j. Viscosity: 20,000 cP

k. Specific Gravity: 1.25

l. Acceptable substrates: as indicated in Intertek Design Listing No. [BASF/FI 30-09](#)

m. Wet mil thickness: as indicated in Intertek Design Listing No. [BASF/FI 30-09](#)

n. Overcoat with Behr Premium Plus Exterior Paint, or equivalent

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 in an Exterior Rated Wall Assembly.

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



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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 ThB [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 ThB [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 ThB [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 coverages 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 succeeding 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



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

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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):
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 3. ICC 1100– Standard for Spray-applied Polyurethane Foam Plastic Insulation
- F. National Fire Protection Association (NFPA):
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- 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
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 - g. Additional information

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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@noburn.com, Web: www.noburn.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



Made in the USA



SUBMITTAL SHEET

		No-Burn [®] Ignition Barrier ER-305 & TER-1905-03		No-Burn [®] Thermal Barrier & Competitor Comparison ER-305 & TER-1905-03					
		Plus ThB, Plus XD or Plus		Plus ThB		Competitor 1		Competitor 2	
		Wet Mil Thickness	Area Coverage (sq.ft./gal)	Wet Mil Thickness	Area Coverage (sq.ft./gal)	Wet Mil Thickness	Area Coverage (sq.ft./gal)	Wet Mil Thickness	Area Coverage (sq.ft./gal)
BASF	Energite G Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	Energite NM Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	Energite IB-418 Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	Spraytite SP Closed Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Spraytite 158 Closed Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Spraytite 81205 Closed Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Spraytite 178 Closed Cell	12 wet mils	134 sq.ft./gal	17 wet mils	94 sq.ft./gal	20 wet mils	80 sq.ft./gal	23 wet mils	70 sq.ft./gal
	Spraytite 81206 Closed Cell	12 wet mils	134 sq.ft./gal	17 wet mils	94 sq.ft./gal	20 wet mils	80 sq.ft./gal	23 wet mils	70 sq.ft./gal
	Walltite US Closed Cell	12 wet mils	134 sq.ft./gal	17 wet mils	94 sq.ft./gal	20 wet mils	80 sq.ft./gal	23 wet mils	70 sq.ft./gal
	Walltite US-N Closed Cell	12 wet mils	134 sq.ft./gal	17 wet mils	94 sq.ft./gal	20 wet mils	80 sq.ft./gal	23 wet mils	70 sq.ft./gal
	Walltite HP+ Closed Cell	12 wet mils	134 sq.ft./gal	17 wet mils	94 sq.ft./gal	20 wet mils	80 sq.ft./gal	23 wet mils	70 sq.ft./gal
	Spraytite Comfort Closed Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Spraytite Comfort Plus Closed Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Spraytite Comfort XL Closed Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Spraytite LWP-L Closed Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Walltite LWP Closed Cell	12 wet mils	134 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
Walltite HP+S Closed Cell	12 wet mils	134 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal	
Walltite 200 Closed Cell	12 wet mils	134 sq.ft./gal	17 wet mils	94 sq.ft./gal	20 wet mils	80 sq.ft./gal	23 wet mils	70 sq.ft./gal	
Carlisle	SealTite Pro Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal
	Foamsulate 50 HY Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal
	SealTite Pro No Mix Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal	Not Tested	
	Foamsulate 50 Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	SealTite Pro High Yield Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal
	SealTite Pro Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	Foamsulate Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	SealTite Pro One Zero Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	Foamsulate HFO Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
Demilec	Sealection 500 Open Cell	6 wet mils	267 sq.ft./gal	16 wet mils	100 sq.ft./gal	18 wet mils	89 sq.ft./gal	17 wet mils	94 sq.ft./gal
	Agribalance Open Cell	10 wet mils	160 sq.ft./gal	16 wet mils	100 sq.ft./gal	18 wet mils	89 sq.ft./gal	23 wet mils	70 sq.ft./gal
	Heatlok HFO High Lift Closed Cell	Not Required		16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	Heatlok HFO Pro Closed Cell	Not Required		16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	Heatlok XT-s Closed Cell	Not Required		16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	Heatlok XT-w Closed Cell	Not Required		16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
Energy One America	EOA 2000 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
Gaco	EZSpray F4500 Open Cell	6 wet mils	267 sq.ft./gal	14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	17 wet mils	94 sq.ft./gal
	183M Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	OnePass F1850 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	OnePass Low GWP F1880 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal



		No-Burn® Ignition Barrier ER-305 & TER-1905-03		No-Burn® Thermal Barrier & Competitor Comparison ER-305 & TER-1905-03					
		Plus ThB, Plus XD or Plus		Plus ThB		Competitor 1		Competitor 2	
General Coatings	Ultra-Thane 050 Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal	Not Tested	
	Ultra-Thane 050 Max Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal	Not Tested	
	Ultra-Thane 050 Max Pro Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal	Not Tested	
	Ultra-Thane 050X Open Cell	Not Required		14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal	Not Tested	
	Ultra-Thane 170 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
	Ultra-Thane 202 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal	Not Tested	
	Ultra-Thane 202 High-Lift Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
	Ultra-Thane 205 HFO Closed Cell	Not Tested		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
	Ultra-Thane 205 HFO High Lift Closed Cell	Not Tested		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
ICP	Handi-Foam E-84 Class 1 Closed Cell	10 wet mils	160 sq.ft./gal	Not Tested		20 wet mils	80 sq.ft./gal	Not Tested	
Icynene	Classic Open Cell	6 wet mils	267 sq.ft./gal	16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Classic Ultra Open Cell	6 wet mils	267 sq.ft./gal	16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Classic Ultra Select Open Cell	6 wet mils	267 sq.ft./gal	16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	Classic Plus Open Cell	6 wet mils	267 sq.ft./gal	16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	Prime Gold Open Cell	6 wet mils	267 sq.ft./gal	16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	No Mix Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	ProSeal Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	ProSeal LE Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	ProSeal Eco Closed Cell	5 wet mils	320 sq.ft./gal	14 wet mils	115 sq.ft./gal	22 wet mils	73 sq.ft./gal	Not Tested	
	ProSeal HFO Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal
	ProSeal HFO CW Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal
	MDC-200 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	22 wet mils	73 sq.ft./gal	Not Tested	
Johns Manville	JM Corbond Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal	18 wet mils	89 sq.ft./gal
	Corbond OCX Open Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	JM Corbond III Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	JM Corbond IV Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	JM GEN IV Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	Corbond MCS Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	22 wet mils	73 sq.ft./gal	20 wet mils	80 sq.ft./gal
Lapolla	FL 450 Open Cell	6 wet mils	267 sq.ft./gal	16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal
	FL 500 Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal
	FL 750 Open Cell	6 wet mils	267 sq.ft./gal	16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	FL 2000 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
	FL 2000-4G Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal
SES	SucraSeal 0.5 Open Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal
	EasySeal.5 Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	Nexseal 2.0 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	Nexseal 2.0 LE Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	



		No-Burn® Ignition Barrier ER-305 & TER-1905-03		No-Burn® Thermal Barrier & Competitor Comparison ER-305 & TER-1905-03					
		Plus ThB, Plus XD or Plus		Plus ThB		Competitor 1		Competitor 2	
SWD	Quik-Shield 106 Open Cell	6 wet mils	267 sq.ft./gal	Not Tested		24 wet mils	67 sq.ft./gal	Not Tested	
	Quik-Shield 108 Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	17 wet mils	94 sq.ft./gal
	Quik-Shield 108YM Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	17 wet mils	94 sq.ft./gal
	Quik-Shield 112XC Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	17 wet mils	94 sq.ft./gal
	Quik-Shield 118 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	Quik-Shield 133 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	Not Tested		Not Tested	
Tiger Foam	Tiger Foam E-84 Class 1 Closed Cell	10 wet mils	160 sq.ft./gal	Not Tested		20 wet mils	80 sq.ft./gal	Not Tested	
UPC	UPC 500 Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal	Not Tested	
	UPC 500 Max Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal	Not Tested	
	UPC 500 Max Pro Open Cell	Not Tested		14 wet mils	115 sq.ft./gal	21 wet mils	76 sq.ft./gal	Not Tested	
	UPC 500 OCX Open Cell	Not Required		14 wet mils	115 sq.ft./gal	20 wet mils	80 sq.ft./gal	Not Tested	
	UPC 1.7 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
	UPC 2.0 Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	18 wet mils	89 sq.ft./gal	Not Tested	
	UPC 2.0 HL Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
	UPC 2.0 MAX Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
	UPC 2.0 HFO Closed Cell	Not Tested		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
	UPC 2.0 HFO High Lift Closed Cell	Not Tested		14 wet mils	115 sq.ft./gal	16 wet mils	100 sq.ft./gal	Not Tested	
Victory Polymers	VPC-CC SuperLift Closed Cell	Not Required		16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
	VPC-CC SuperYield Closed Cell	Not Required		16 wet mils	100 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	
XtremeSeal	XtremeSeal 2.0 LE Closed Cell	Not Required		14 wet mils	115 sq.ft./gal	14 wet mils	115 sq.ft./gal	Not Tested	

PRODUCT DESCRIPTION

No-Burn Plus 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 intumesces creating a char-barrier protecting treated substrates from fire. Manufactured in compliance with ISO 9001, as a certified intumescent coating, Plus is applied to a variety of combustible substrates achieving the fire performance prescribed.

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 white and tinted coloring

PRODUCT SPECIFICATIONS

- Color: White/Tinted
- Finish: Flat
- pH: 7-8
- Application: [Plus Technical Data Sheet \(TDS\)](#)
- Film Thickness: Reference Code and Compliance Report
- Dry Time: 60-90 minutes
- Safety: [Plus Safety Data Sheet \(SDS\)](#)
- Overcoat: Water-based with pH of 7-8
- 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

Code Requirement	Compliance
Interior Finish	FS 0-5 SD 0-35, Class A: ER-305
Surface Burning Characteristics	FRTw Alternative: TER 2010-01
Fire Resistance/ Fire Protection of Floors	2" x 10" Dimension Lumber Equivalent: ER-305
Thermal Barrier Assembly	15 minutes: ER-305
Ignition Barrier Assembly	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

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Surface Burning Characteristics

Intumescent Coating

Fire Retardant Treated Wood (FRTw) Alternative

DESCRIPTION

No-Burn Plus is used as an intumescent fire retardant treatment for oriented strand board (OSB) and rough lumber as an alternative to fire retardant treated wood (FRTw). Satisfying IBC Section 2303.2 and IRC Section R802.1.5, No-Burn Plus creates an equivalent treated material in quality, strength, effectiveness, durability and safety.

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 white and tinted coloring.

KEY FEATURES

- > In Type III Construction, characterized by exterior walls of non-combustible material or fire retardant treated wood, rough lumber and sheathing may be sprayed with No-Burn Plus to meet this requirement.
- > Design values are not affected nor strength when substrates are protected with No-Burn Plus.
- > Non-corrosive with ungalvanized steel, red brass and aluminum fasteners.
- > In accordance with NFPA 13, No-Burn Plus spray-applied to rough lumber and sheathing eliminates the need for sprinklers in concealed spaces.



Technical Evaluation Report
[TER 2010-01](#)

- > Used in floor, wall, roof and ceiling framing applications including but are not limited to: beams, columns, headers, joists, studs and sheathing.
- > Substrates: Douglas Fir, Laminated Strand Lumber (LSL), Laminated Veneer Lumber (LVL), Oriented Strand Board (OSB) and Southern Yellow Pine (SYP).
- > Significantly shortened lead and schedule durations with No-Burn Plus.
- > Spray-applied in field, single-coat alternative with a flat, white finish.

Code-compliant solutions. Life-saving protection.

No-Burn, Inc.

SALES INFORMATION AND ORDER PLACEMENT

1-800-989-8577

TECHNICAL INFORMATION

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PART 1 – GENERAL

1.1 SECTION INCLUDES

A. Intumescent Paint:

1. Intumescent paint applied to wood for Surface Burning Characteristics and Fire Resistance.
2. Intumescent paint applied to spray applied polyurethane foam plastic insulation as an Alternative Thermal Barrier.
3. 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 06 05 73.13 – Fire-Retardant Wood Treatment (Alternate)
- D. Section 07 21 19 – Foamed-In-Place Insulation

1.3 REFERENCES

A. ASTM International (ASTM):

1. ASTM E84- Standard Test Method for Surface Burning Characteristics of Materials
2. ASTM E96- Standard Test Methods for Water Vapor Transmission of Materials
3. ASTM E119 – Standard Test Methods for Fire Tests of Building Construction and Materials
4. ASTM E2768 – Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test)

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. Dr J Engineering, LLC

1. Technical Evaluation Report (TER) 1905-03
2. Technical Evaluation Report (TER) 2010-01

D. FM Approvals LLC

1. FM 4880- Approval Standard for Class I Fire Rating of Building Panels or Interior Finish Materials

E. International Association of Plumbing and Mechanical Officials (IAPMO) Building Products Evaluations (The IAPMO Group) IAPMO Uniform Evaluation Service (UES):

1. Evaluation Report (ER) #305
2. Evaluation Criteria (EC) #017

F. International Code Council (ICC) ICC Evaluation Service (ICC-ES):

1. AC377- Acceptance Criteria for Spray-applied Foam Plastic Insulation
2. AC456- Acceptance Criteria for Fire-protective Coatings Applied to Spray-applied Foam Plastic Insulation Installed Without a Code-prescribed Thermal Barrier
3. IAPMO 1000- Standard for Building Code Compliance of Spray-applied Polyurethane Foam
4. ICC 1100- Standard for Spray-applied Polyurethane Foam Plastic Insulation

H. 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

I. Underwriter's Laboratories, Inc. (UL):

1. UL 723- Test for Surface Burning Characteristics of Building Materials
2. UL 1040- Standard for Fire Test of Insulated Wall Construction
3. UL 1715- Fire Test of Interior Finish Material
4. 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. Dr J [Technical Evaluation Report #1905-03](#)
 - c. Dr J [Technical Evaluation Report #2010-01](#)
 - d. No-Burn [Product sell sheet](#)
 - e. Plus [Technical Data Sheet \(TDS\)](#)
 - f. Plus [Safety Data Sheet \(SDS\)](#)
 - g. Low VOC content and [low VOC emissive](#)
 - h. 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 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 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 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 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. On occasion, No-Burn Plus may be applied to substrates that need protected from the environment in transit or on a jobsite. The No-Burn Warranty may be void if the No-Burn Plus coated substrates, while in transit or during construction, are not protected from prolonged exposure to adverse weather conditions as specified by manufacturer recommendations. 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@noburn.com, Web: www.noburn.com.

- B. Substitutions: [Under provisions of Division 01.] [Not permitted.]

2.2 FIRE PROTECTIVE INTUMESCENT COATING ALTERNATE TO FRTW.

A. Basis-of-Design Product: Plus, as manufactured by No-Burn, Inc.

1. Performance and Design Requirements:
 - a. Standards Compliance:
 - 1) Interior Finish Classification: ASTM E84 & UL 723 FSI<25 and SDI<450, NFPA 286, UL 1715
 - 2) Evaluation Reports: Dr J [TER 2010-01](#)
 - b. Finish: Flat
 - c. Color: White
 - 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: 38%
 - j. Viscosity: 16,000 cP
 - k. Specific Gravity: 1.25
 - l. Acceptable substrates: as indicated in [TER 2010-01](#)
 - m. Wet mil thickness: as indicated in [TER 2010-01](#)
 - 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/NF 51 Food Zone Materials
2. Description: Fire protective intumescent coating formulated for application over wood as an alternate to Fire Retardant Treated Wood (FRTW).

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 and an overcoat have been applied.
2. Follow application and overcoat instructions located on the Manufacturer's Plus [Technical Data Sheet](#) (TDS).

2.2 FIRE PROTECTIVE INTUMESCENT COATING EQUIVALENT TO 2" X 10" DIMENSION LUMBER.

A. Basis-of-Design Product: Plus, as manufactured by No-Burn, Inc.

1. Performance and Design Requirements:
 - a. Standards Compliance:
 - 1) Acceptance Criteria: EC 017, ASTM E119
 - 2) Interior Finish Classification: ASTM E84 & UL 723 FSI<25 and SDI<450, NFPA 286, UL 1715
 - 3) Evaluation Reports: IAPMO [ER 305](#)
 - b. Finish: Flat
 - c. Color: White
 - 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: 38%
 - j. Viscosity: 16,000 cP
 - k. Specific Gravity: 1.25
 - l. Acceptable substrates: Engineered wood I-joists and exposed subfloor, as indicated in [ER 305](#)
 - m. Wet mil thickness: as indicated in [ER 305](#)
 - 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/NF 51 Food Zone Materials
2. Description: Fire protective intumescent coating formulated for application over wood I-joists and exposed subfloor as an equivalent to 2" x 10" dimension lumber.

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 and an overcoat have been applied.
2. Follow application and overcoat instructions located on the Manufacturer's Plus [Technical Data Sheet](#) (TDS).

2.3 FIRE PROTECTIVE INTUMESCENT THERMAL BARRIER COATING

A. Basis-of-Design Product: Plus, as manufactured by No-Burn, Inc.

1. Performance and Design Requirements:
 - a. Standards Compliance:
 - 1) Acceptance Criteria: UL 1715, NFPA 286, FM 4880, UL 1040
 - 2) Interior Finish Classification: ASTM E84 & UL 723 FSI<25 and SDI<450, NFPA 286, UL 1715
 - 3) Evaluation Reports: IAPMO [ER-305](#)
 - b. Finish: Flat
 - c. Color: White
 - 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: 38%
 - j. Viscosity: 16,000 cP
 - k. Specific Gravity: 1.25



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- l. Acceptable substrates: Structural Insulated Panels (SIPs), as indicated in [ER-305](#)
 - m. Wet mil thickness: as indicated in [ER-305](#)
 - 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 Structural Insulated Panels (SIPs) for thermal 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 and an overcoat have been applied.
 - 2. Follow application and overcoat instructions located on the Manufacturer's: Plus [Technical Data Sheet \(TDS\)](#).

2.4 FIRE PROTECTIVE INTUMESCENT IGNITION BARRIER COATING

- A. Basis-of-Design Product: Plus, 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: ASTM E84 & UL 723 FSK'25 and SDI'450, NFPA 286, UL 1715
 - 3) Evaluation Reports: IAPMO [ER-305](#) and DrJ [TER 1905-03](#)
 - b. Finish: Flat
 - c. Color: White
 - 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: 38%
 - 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 and an overcoat have been applied.
 - 2. Follow application and overcoat instructions located on the Manufacturer's: Plus [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 [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 [Technical Evaluation Report #2010-01](#), [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 [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 coverages 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 succeeding 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



BEST PRACTICES FOR SAFE HANDLING & STORAGE

Intumescent coatings require specified handling and storage. Improper handling and storage conditions, especially exposure to extreme cold or hot temperatures, can adversely affect physical properties and the shelf life rendering the product unsalvageable. Handling and storage specifications follow. Read and understand manufacturer recommendations expressed in the Safety Data Sheets (SDS) and Technical Data Sheets (TDS) published by No-Burn, Inc.

INTUMESCENT COATING SPECIFICATIONS:

- Non-hazardous
- Water-based
- pH 7-8
- Boiling Point of 212° F (100° C)
- Freezing Point of 32° F (0° C)
- Slight to no odor

CONDITIONS FOR SAFE HANDLING & STORAGE:

- Temperature-controlled between 40° F (4° C)–90° F (32° C)
- Original packaging only, cool dry
- Keep upright
- Store out of direct sunlight



ADDITIONAL PRECAUTIONARY MEASURES:

Weather may dictate installation conditions and safe, on-site storage of the intumescent coating. If the temperature is below 40° F (4° C) and above 90° F (32° C), then additional handling and storage procedures should be considered. Ensure the CONDITIONS FOR SAFE HANDLING & STORAGE are followed during transit.

NO-BURN PLUS	NO-BURN PLUS ThB	NO-BURN PLUS XD
Shelf life: 24 months from date of manufacture	Shelf life: 12 months from date of manufacture	Shelf life: 24 months from date of manufacture
Safety Data Sheet (SDS)	Safety Data Sheet (SDS)	Safety Data Sheet (SDS)
Technical Data Sheet (TDS)	Technical Data Sheet (TDS)	Technical Data Sheet (TDS)

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