

Plus ThB Intumescent Coating

Spray Polyurethane Foam Insulation

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 highperformance, 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 onecoat 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/Tinted		
	Intumescent Color Wheel & Tinting		
	White	Gray	Tinted
Finish:	Flat		
рН:	7-8		
Application:	Best Practices for Application		
Film Thickness:	Reference Code and Compliance Report		
Dry Time:	60-90 minutes		
Overcoat:	Water-based with pH of 7-8		
Safety:	<u>Plus ThB Safety Data Sheet (SDS)</u>		
VOC Content:	18 g/L		
VOC Emissions:	<u>CDPH (CA Spec 01350) Compliant</u>		



PACKAGING/STORAGE

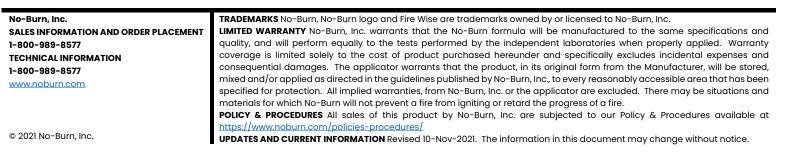
Pails:	5 gallons (19 L), 58.5 lbs.
Drums:	55 gallon drum (208 L), net 45 gallons
	(170 L) 586.5 lbs.
Shelf Life:	12 months in unopened sealed containers,
	properly stored
Storage:	40°F (4°C) – 90° F (32°C)
	Best Practices for Safe Handling & Storage

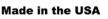
PLUS ThB

Code Requirement	Compliance	
Thermal Barrier Assembly	15 minutes: <u>ER-305</u> , <u>TER 1905-03</u>	
Ignition Barrier Assembly	5± minutes: <u>ER-305</u> , <u>TER 1905-03</u>	
Exterior Rated Wall	Intertek Design Listing:	
Assembly	<u>BASF/FI 30-09</u>	
Interior Finish	FS 0 SD 10, Class A	
Vapor Retarder	5 perms, Class III	
USDA Incidental Food	ANSI/NSF 51 Food Zone	
Contact	Materials	

SUBMITTAL SHEET

Code-compliant solutions. Life-saving protection.









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SECTION 072119 - FOAMED-IN-PLACE INSULATION PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Closed-cell spray polyurethane foam insulation.
 - 2. Open-cell spray polyurethane foam insulation.
 - 3. Accessories including thermal barrier and ignition barrier coatings.
- B. Related Requirements:
 - 1. Section 072100 "Thermal Insulation" for foam-plastic board insulation.
 - Section 075700 "Coated Foamed Roofing" for spray polyurethane foam insulation used for roofing applications.

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Sustainable Design Submittals:
 - Product Data: For paints and coatings, indicating VOC content.
 - Evaluation Reports or Certificates: For paints and coatings, indicating compliance with requirements for low-emitting materials.

1.3 INFORMATIONAL SUBMITTALS

- A. Test and Evaluation Reports:
 - 1. Product Test Reports: For each product, for tests performed by qualified testing agency.
 - 2. Research Reports:
 - a. For spray-applied polyurethane foam-plastic insulation, from [an agency acceptable to authorities having jurisdiction] [ICC-ES] [UES/IAPMO] [DrJ TER] <Insert evaluation agency> showing compliance with <Insert requirement>.
 - b. For fire-protective coatings applied to spray-applied polyurethane foam-plastic insulation, from [UES/IAPMO] [DrJ TER] [Intertek] <Insert evaluation agency> showing compliance with <Insert requirement>.
- B. Field Quality-Control Submittals:
 - 1. Field quality-control reports for foamed-in-place insulation.
- C. Qualification Statements: For Installer.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: A[n authorized] representative who is trained on applications of spray-applied polyurethane foamplastic insulation and intumescent coatings, or similar product types[and approved by manufacturer].

PART 2 - PRODUCTS

- 2.1 CLOSED-CELL SPRAY POLYURETHANE FOAM INSULATION
 - A. Closed-Cell Spray Polyurethane Foam: ASTM C1029, Type II, minimum density of [1.5 lb/cu. ft. (24 kg/cu. m)] <Insert density> and minimum aged R-value at 1-inch (25.4-mm) thickness of 6.2 deg F x h x sq. ft./Btu at 75 deg F (43 K x sq. m/W at 24 deg C).
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. BASF Corporation.
 - b. Carlisle Spray Foam Insulation.c. Demilec; a brand of Huntsman Building Products.
 - d. Gaco Western LLC.
 - e. Icynene; a brand of Huntsman Building Products.
 - f. Johns Manville; a Berkshire Hathaway company.
 - g. Lapolla; a brand of Huntsman Building Products.
 - h. SWD Urethane Company.
 - i. <Insert manufacturer's name>.
 - Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 a. Flame-Spread Index: [25] [75] <Insert value> or less.
 - b. Smoke-Developed Index: [450] <Insert value> or less.

Made in the USA

- Fire Propagation Characteristics: Passes [NFPA 285] [and] [NFPA 276] testing as part of an approved assembly.
- 2.2 OPEN-CELL SPRAY POLYURETHANE FOAM INSULATION A. Open-Cell Spray Polyurethane Foam: Spray-applied
 - polyurethane foam using water as a blowing agent. Minimum density of [0.4 lb/cu. ft. (6.4 kg/cu, m)] sInsert density> and minimum aged R-value at I-inch (25.4-mm) thickness of 3.4 deg F x h x sq. ft/Btu at 75 deg F (24 K x sq. m/W at 24 deg C).
 - Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. BASF Corporation.
 - b. Carlisle Spray Foam Insulation.
 - c. Demilec; a brand of Huntsman Building Products. d. Gaco Western I.I.C.
 - a. Gaco western LLC.
 - e. Icynene; a brand of Huntsman Building Products.f. Johns Manville; a Berkshire Hathaway company.
 - g. Lapolla; a brand of Huntsman Building Products.
 - h. SWD Urethane Company.
 - i. <Insert manufacturer's name>.
 - Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 a. Flame-Spread Index: [25] [75] <Insert value> or less.
 - b. Smoke-Developed Index: [450] <Insert value> or less.
 3. Fire Propagation Characteristics: Passes [NFPA 285] [and]
 - [NFPA 276] testing as part of an approved assembly.
- 2.3 ACCESSORIES
 - A. Thermal Barrier Coating: Fire-protective intumescent coating formulated for application over polyurethane foam plastics, compatible with insulation, and passes NFPA 286, FM 4880, UL 1040, or UL 1715 testing as part of an approved assembly.
 - Basis-of-Design Product: Subject to compliance with requirements, provide No-Burn, Inc.; Plus ThB intumescent
 - coating.
 - 2. Performance Criteria:
 - a. Finish: Flat.
 - b. Color: [White] [Gray] [Tinted].c. VOC Content: 18 g/L or less of y
 - VOC Content: 18 g/L or less of water in accordance with EPA 24.
 - d. Solids by Volume: 70 percent.
 - Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: [50] [450] <Insert value> or less.
 - 4. Fire Propagation Characteristics: Passes NFPA 285 testing as part of an approved assembly.
 - 5. Topcoat: As recommended in writing by intumescent thermal barrier manufacturer as compatible with
 - substrate materials.
 - a. Decorative Topcoat: 6- to 8-mil (0.15- to 0.20-mm) thick, water-based latex-based paint for interior conditioned spaces recommended in writing by intumescent thermal barrier manufacturer as compatible with substrate materials.
 - b. Protective Topcoat, Interior: 6- to 8-mil (0.15- to 0.20mm) thick, exterior topcoat, VOC compliant, for interior unconditioned spaces subject to constant high humidity, condensation, or direct contact with moisture.
 - c. Protective Topcoat, Exterior: 6- to 8-mil (0.15- to 0.20mm) thick, continuous insulation exterior topcoat as a component of exterior wall systems as indicated by Intertek Design Listing BASF/FI 30-09 when installed behind approved claddings.
 - B. Ignition Barrier Coating: Fire-protective coating formulated for application over polyurethane foam plastics, compatible with insulation, and in compliance with ICC-ES AC377, https://doi.org/10.1016/j.compliance.com/plastics/plasti
 - Appendix X. Products identified with testing agency markings. 1. Basis-of-Design Product: Subject to compliance with
 - requirements, provide No-Burn, Inc.; Plus ThB. 2. Performance Criteria:
 - a. Finish: Flat.
 - b. Color: [White] [Gray] [Tinted].

Plus ThB

Intumescent Coating

Spray Polyurethane Foam Insulation

- c. VOC Content: 18 g/L or less of water in accordance with EPA 24.
- d. Solids by Volume: 60 to 70 percent.
- Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 a. Flame-Spread Index: 25 or less.
 - b. Smoke-Developed Index: 50 or less.
- Topcoat: As recommended in writing by intumescent thermal barrier manufacturer as compatible with substrate materials.
 - a. Decorative Topcoat: 6- to 8-mil (0.15- to 0.20-mm) thick, water-based latex-based paint for interior conditioned spaces recommended in writing by intumescent thermal barrier manufacturer as compatible with substrate materials.
 - b. Protective Topcoat, Interior: 6- to 8-mil (0.15- to 0.20mm) thick, heavy-duty protective topcoat, VOC compliant, for interior unconditioned spaces subject to constant high humidity, condensation, or direct contact with moisture.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions for compliance with manufacturer's requirements for surface treatments, maximum moisture content, and other conditions affecting performance of the Work.
- B. Proceed with coating application only after unsatisfactory conditions have been corrected and surfaces are dry.

3.2 PREPARATION

A. Verify that substrates are clean, dry, and free of substances that are harmful to insulation.

3.3 INSTALLATION

specified.

Drawings] [fully fill void].

- A. Comply with insulation manufacturer's written instructions applicable to products and applications.
- B. Spray insulation to envelop entire area to be insulated and fill voids.
- C. Do not exceed maximum thicknesses recommended by manufacturer. Do not spray into rising foam.
 D. Framed Construction: Install into cavities formed by framing

members to achieve thickness indicated on Drawings

Miscellaneous Voids: Apply in accordance with

manufacturer's written instructions.

coating manufacturer.

or deterioration.

color breaks

Measuring Thickness:

and dry film thickness

comparators, or similar devices.

3.4 FIELD QUALITY CONTROL

3.5 PROTECTION

END OF SECTION 072119

E. Cavity Walls: Install into cavities to [thickness indicated on

G. Apply fire-protective intumescent coatings in accordance

with manufacturer's written instructions and to comply with

1. Use equipment and techniques best suited for substrate

2. Apply coatings to prepared surfaces as soon as practical

3. Apply coatings to produce surface films without holidays,

other surface imperfections. Produce sharp lines and

A. Continuously monitor wet film thickness (WFT) by performing

periodic checks to ensure correct thicknesses are applied.

a. Install medallions prior to applying intumescent

b. Perform thickness measurements by measuring

representative sample of installed intumescent

coating material by means of calipers, optical

A. Protect installed insulation from damage due to harmful

weather exposures, physical abuse, and other causes.

SUBMITTAL SHEET

thermal barrier coating to measure wet film thickness

laps, brush marks, roller tracking, runs, sags, ropiness, or

after preparation and before subsequent surface soiling

and type of material applied as recommended by

requirements for listing and labeling for fire-propagation

characteristics and surface-burning characteristics