

## MANUFACTURER

No-Burn, Inc.  
1392 High Street, Suite 211  
Wadsworth, Ohio 44281  
[www.noburn.com](http://www.noburn.com)

## DESCRIPTION

No-Burn® Plus ThB is a white, water-based thin film intumescent coating when exposed to high temperatures and flame, intumesces creating a char-barrier protecting treated *Substrates* from fire. Certified to be applied to a variety of *Substrates*, fire performance compliance is achieved with the appropriate wet film thickness.

## 1. PRIMARY USES

For use in new and existing buildings, complying with the IBC®, IRC® IEBC® and other applicable codes or standards, Plus ThB is utilized in applications where it provides:

- Interior Finish Classification Class I or Class A: FS 0 / SD 10
- Alternative or Non-prescriptive Thermal Barrier
- Alternative or Non-prescriptive Ignition Barrier
- Class III Vapor Retardancy

View [Evaluation Report \(ER 305\)](#) for more information.

## 2. SPECIFICATIONS

Color:	Opaque/White/Tinted
Finish:	Flat
VOC Content:	18 g/L EPA Method 24
Dry Time:	60-90 Minutes
Pails:	5 Gallons (19 L), 57.5 lbs.
Drums:	55 Gallons (208 L), 632.5 lbs.
Shelf Life:	18 Months
Cure Time:	24 Hours
Boiling Point:	212°F
Freezing Point:	32°F
% Volatile by Volume:	33%
Specific Gravity:	1.25

View product [Safety Data Sheet \(M\)SDS](#) for more information.

## 3. PRODUCT PERFORMANCE

No-Burn® Plus ThB may be used for the *Primary Uses* expressed. As a component in an alternative ignition barrier assembly or thermal barrier assembly, Plus ThB is an intumescent fire protective coating for interior spaces where spray polyurethane foam is installed. Applied in a one-coat application, Plus ThB is passively protecting the spray foam surface by delaying the temperature rise of the foam, and by delaying or preventing the foam from igniting.

Applicable for open cell and closed cell spray polyurethane foam, Plus ThB provides the fire protection and Class III vapor retardancy as code requires for residential, light commercial and commercial construction. Complies with USDA requirements for incidental food contact and ANSI/NSF 51 Food Zone Materials.

## 4. APPLICABLE STANDARDS

No-Burn® Plus ThB may be specified in compliance of the following:	
AC377	GSA PBS-P100
AC456	ICC/ASHRAE 700 NGBS
ANSI/ASHRAE/ICC/USGBC Standard 189.1	IgCC
ANSI/NSF 51	LEED v3 2009
ASTM E96	LEED v4
CARB	NFPA 286
CDPH (CA Spec 01350)	SCAQMD Rule 1113
CHPS	UL 1715
EC017	

Table 1

Material	Substrate		
	TB <sup>1</sup> or IB <sup>2</sup>	Film Thickness	Spread Rate
BASF Enerlite G Open Cell SPF	TB	14 wet	115 sq. ft./gal.
BASF Enerlite NM Open Cell SPF	TB	14 wet	115 sq. ft./gal.
BASF Enerlite IB-418 Open Cell SPF	TB	14 wet	115 sq. ft./gal.
BASF Spraytite SP Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
BASF Spraytite 158 Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
BASF Spraytite 81205 Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
BASF Spraytite 178 Closed Cell SPF	TB	17 wet	94 sq. ft./gal.
BASF Spraytite 81206 Closed Cell SPF	TB	17 wet	94 sq. ft./gal.
BASF Walltite HP+ Closed Cell SPF	TB	17 wet	94 sq. ft./gal.
BASF Walltite US-N Closed Cell SPF	TB	17 wet	94 sq. ft./gal.
BASF Walltite US Closed Cell SPF	TB	17 wet	94 sq. ft./gal.
BASF Walltite 200 Closed Cell SPF	TB	17 wet	94 sq. ft./gal.
Icynene Classic Open Cell SPF	TB	16 wet	100 sq. ft./gal.
Icynene Classic Ultra Open Cell SPF	TB	16 wet	100 sq. ft./gal.
Icynene Classic Ultra Select Open Cell SPF	TB	16 wet	100 sq. ft./gal.
Icynene Classic Plus Open Cell SPF	TB	16 wet	100 sq. ft./gal.
Icynene Prime Gold Open Cell SPF	TB	16 wet	100 sq. ft./gal.
Icynene ProSeal Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Icynene ProSeal LE Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Icynene ProSeal Eco Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Icynene ProSeal HFO Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Icynene ProSeal HFO CW Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Icynene MD-C-200 Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Johns Manville JM Corbond Open Cell SPF	TB	14 wet	115 sq. ft./gal.
Johns Manville JM Corbond OCX Open Cell SPF	TB	14 wet	115 sq. ft./gal.
Johns Manville JM Corbond III Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Johns Manville JM Corbond MCS Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Lapolla Foam-Lok FL 500 Open Cell SPF	TB	14 wet	115 sq. ft./gal.
Lapolla Foam-Lok FLX-500 Open Cell SPF	TB	14 wet	115 sq. ft./gal.
Lapolla Foam-Lok FL 450 Open Cell SPF	TB	16 wet	100 sq. ft./gal.
Lapolla Foam-Lok FL 750 Open Cell SPF	TB	16 wet	100 sq. ft./gal.
Lapolla Foam-Lok FL 2000-4G Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Lapolla Foam-Lok FL 2000 Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
SWD Quik-Shield 108 Open Cell SPF	TB	14 wet	115 sq. ft./gal.
SWD Quik-Shield 112XC Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
SWD Quik-Shield 118 Closed Cell SPF	TB	14 wet	115 sq. ft./gal.
Accella Bayseal™ OC Open Cell SPF	IB	6 wet	267 sq. ft./gal.
BASF COMFORT FOAM® 178 Closed Cell SPF	IB	12 wet	134 sq. ft./gal.
BASF ENERTITE® NM Open Cell SPF	IB	6 wet	267 sq. ft./gal.
BASF ENERTITE® US Open Cell SPF	IB	12 wet	134 sq. ft./gal.
BASF SPRAYTITE® 158 Closed Cell SPF	IB	6 wet	267 sq. ft./gal.
BASF SPRAYTITE® 178 Closed Cell SPF	IB	12 wet	134 sq. ft./gal.
BASF SPRAYTITE® 81205 Closed Cell SPF	IB	6 wet	267 sq. ft./gal.
BASF SPRAYTITE® 81206 Closed Cell SPF	IB	12 wet	134 sq. ft./gal.
BASF SPRAYTITE® SP Closed Cell SPF	IB	6 wet	267 sq. ft./gal.
BASF WALLTITE® HP+ Closed Cell SPF	IB	12 wet	134 sq. ft./gal.
BASF WALLTITE® US Closed Cell SPF	IB	12 wet	134 sq. ft./gal.
BASF WALLTITE® US-N Closed Cell SPF	IB	12 wet	134 sq. ft./gal.

<sup>1</sup> ER 305 Alternative Thermal Barrier (TB) Assemblies Table 2.

<sup>2</sup> ER 305 Alternative Ignition Barrier (IB) Assemblies Table 3.

Table 1 Continued

Substrate			
Material	TB <sup>1</sup> or IB <sup>2</sup>	Film Thickness	Spread Rate
Convenience Touch 'n Seal® 2.0 pcf Closed Cell SPF	IB	8 wet	200 sq. ft./gal.
Demilec SEALECTION® 500 Open Cell SPF	IB	6 wet	267 sq. ft./gal.
Demilec SEALECTION Agribalance® Open Cell SPF	IB	10 wet	160 sq. ft./gal.
Huber ZIP System® R-Sheathing Panel (R-3 & R-6)	IB	10 wet	160 sq. ft./gal.
ICP Handi-Foam® E-84 Class 1(A) Closed Cell SPF	IB	10 wet	160 sq. ft./gal.
Icynene Classic (LD-C-50™) Open Cell SPF	IB	6 wet	267 sq. ft./gal.
Icynene Classic Ultra Open Cell SPF	IB	6 wet	267 sq. ft./gal.
Icynene Classic Ultra Select Open Cell SPF	IB	6 wet	267 sq. ft./gal.
Icynene Classic Plus (LD-C-70™) Open Cell SPF	IB	6 wet	267 sq. ft./gal.
Icynene MD-C-200 Closed Cell SPF	IB	16 wet	100 sq. ft./gal.
Icynene ProSeal Eco (MD-R-200) Closed Cell SPF	IB	5 wet	320 sq. ft./gal.
Tiger Foam® E-84 Class 1 SPF	IB	10 wet	160 sq. ft./gal.

<sup>1</sup> ER 305 Alternative Thermal Barrier (TB) Assemblies Table 2.

<sup>2</sup> ER 305 Alternative Ignition Barrier (IB) Assemblies Table 3.

## 5. MIXING, TINTING and OVERCOATS

Plus ThB must be thoroughly mixed before use in accordance with the manufacturer's recommendations. Mix with a 5 gallon power mixing wand at or between 500-1500 RPM for a mixing time of 5 minutes per pail. Shaking No-Burn® Plus ThB with a paint shaker is NOT sufficient. Filtering or straining Plus ThB is not recommended. If No-Burn® Plus ThB is mixed more than 24 hours prior to use, mix it again according to manufacturer's instructions.

Thinning is usually not needed; if Plus ThB has been exposed to high heat, water may evaporate from the plastic 5 gallon container. If the paint level is below 3-4 inches from the top of the container, add enough water to bring the level back up to within 3 inches from the top in order to ensure proper consistency. Mix Plus ThB again according to manufacturer's instructions.

After mixing for 5 minutes, if the viscosity is still too high, you may add 8 ounces of water per 5 gallon pail and mix to reduce the viscosity. Mix Plus ThB again according to manufacturer's instructions. Use Caution not to add too much water or the product may run and drip during application.

Plus ThB should never be allowed to freeze 32°F (0°C), stored between 40°F and 90°F (4.4°C and 32.2°C), and kept out of direct sunlight; if you cannot verify that these conditions have been maintained, the product may be disposed of in accordance with the manufacturer's (M)SDS.

If tinting is desired, Plus ThB may be tinted at a maximum rate of 2 oz. of tint per gallon. It is recommended that No-Burn® Green Dye or No-Burn® Black Tint, manufactured by No-Burn, Inc., be used for tinting. Contact the manufacturer for additional tinting information.

When a specified color or black color is desired, an overcoat may be used, such as black Sherwin Williams A-100 or Behr Premium Plus. 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.

To recycle pails visit, <http://www.wbdg.org/tools/cwm.php>.

## 6. APPLICATION

When applying No-Burn® Plus ThB, the coating shall be applied to *Substrate(s)*, as applicable, in accordance with Evaluation Report (ER) 305, and/or manufacturer's technical data sheet/instructions. Copies of relevant technical data and/or documents shall be available at the jobsite.

Before and during coating application, the *Substrates'* surfaces shall be dry, clean and free from loose debris, dust, dirt, grease, oil, and all prior coating materials, such as paint, stains and sealers. The foam should be allowed to cool to ambient room temperature prior to the application of No-Burn® Plus ThB, minimum 1 hour. The *Substrate(s)* shall not have, nor have been exposed to, treatments, chemicals, coatings, etc. prior to the application of Plus ThB. Visual observation of the intumescent coating is naturally and distinctively white in color. For verification of the wet applied thickness, a standard painter's thickness gauge shall be used during the application. The finished dry mil thickness will be 0.40-0.70 times the wet mil thickness.

*Substrate(s)* shall be in the final position in the building, directly exposed to the interior, protected from the weather, in conditioned and unconditioned locations. Furthermore, Plus ThB shall be applied to areas within the weatherproofing membrane or surfaces not exposed to weather.

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. The coating shall be applied at an application rate set forth by spraying, roller or brush. Dry time is typically 60-90 minutes and cure time is 24 hours minimum, depending on the ambient temperature and relative humidity conditions. If more than one coat is required, allow No-Burn® Plus ThB to dry completely between coats.

## 7. EQUIPMENT

Methods of application include airless sprayer, roller or brush. Manufacturers and models of airless spray *Equipment* vary and examples of applicable *Equipment* follow. Airless spray *Equipment* recommendations have been linked for reference to manufacturer specifications.

Table 2

Equipment		
Manufacturer	Model	
Graco®	<a href="#">Ultra Max II 795</a>	<a href="#">Ultra Max II 1595</a>
	<a href="#">Ultra Max II 1095</a>	<a href="#">TexSpray Mark V</a>
Titan®	<a href="#">Impact™ 840</a>	<a href="#">PowrTwin™ 6900 Plus</a>
	<a href="#">Impact™ 1140</a>	<a href="#">PowrTwin™ 8900 Plus</a>

Spray *Equipment* must be capable of producing a minimum of 3,300 psi, and recommended tip orifice sizes are .025-.031. Removal of filter from both the spray gun and pump to allow for the passage of solid content is recommended. Airless sprayer hoses are recommended to have an inside diameter of ¼" or larger. Variations in spray pattern width and tip size may be required depending on the surface area and the *Substrate(s)* to which Plus ThB is being applied. Cleanup of *Equipment* may be with water, or other methods recommended by the *Equipment* manufacturer.

## 8. PERSONAL PROTECTION & EXPOSURE CONTROLS

Wearing a certified respirator and goggles to avoid overspray and splashing are recommended. Eye and face protection should be in accordance with OSHA 29 CFR 1910.133. Rubber or plastic gloves are recommended for hand and arm protection. Personal cleanup may be with soap and water. If sprayed, wear an air-purifying respirator approved by NIOSH in accordance with OSHA 29 CFR 1910.134(d)(1)(ii). If used in a confined area, a full-face, powered air-purifying respirator (PAPR) or supplied-air respirator (SAR) is recommended. Use respirators in accordance with 29 CFR 1910.134(d)(3)(i)(A) Table 1, 29 CFR 1910.134(d)(3)(iii)(B) and 29 CFR 1910.134(d)(3)(iv)(B).

Use appropriate engineering controls, such as proper ventilation. Where such systems are not effective, wear suitable personal protective equipment, which performs satisfactorily and meets OSHA or other recognized standards.

Table 3		
Code Compliance		
INTERNATIONAL BUILDING CODE® (IBC®)		
2018		2015
<b>Chapter 8 Interior Finish</b> 803.1.1 Interior Wall and Ceiling Finish Materials NFPA 286 803.1.2 Interior Wall and Ceiling Finish Materials ASTM E84 or UL 723 <b>Chapter 26 Plastic</b> 2603.4/2603.9 Thermal Barrier Special Approval 2603.4.1.6 Attics and Crawl Spaces		<b>Chapter 8 Interior Finish</b> 803.1.1 Interior Wall and Ceiling Finish Material 803.1.2 Corner Test for Interior Wall or Ceiling Finish <b>Chapter 26 Plastic</b> 2603.4/2603.9 Thermal Barrier Special Approval 2603.4.1.6 Attics and Crawl Spaces
2012		2009
<b>Chapter 8 Interior Finish</b> 803.1.1 Interior Wall and Ceiling Finish Material 803.1.2 Corner Test for Interior Wall or Ceiling Finish <b>Chapter 26 Plastic</b> 2603.4/2603.10 Thermal Barrier Special Approval 2603.4.1.6 Attics and Crawl Spaces		<b>Chapter 8 Interior Finish</b> 803.1.1 Interior Wall and Ceiling Finish Material 803.1.2 Corner Test for Interior Wall or Ceiling Finish <b>Chapter 26 Plastic</b> 2603.4/2603.9 Thermal Barrier Special Approval 2603.4.1.6 Attics and Crawl Spaces
INTERNATIONAL RESIDENTIAL CODE® (IRC®)		
2018		2015
<b>Chapter 3 Building and Planning</b> R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes R316.4/R316.6 Thermal Barrier Specific Approval R316.5.3 (AC377 Appx X) Foam Plastic in Attics R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces		<b>Chapter 3 Building and Planning</b> R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes R316.4/R316.6 Thermal Barrier Specific Approval R316.5.3 (AC377 Appx X) Foam Plastic in Attics R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces
2012		2009
<b>Chapter 3 Building and Planning</b> R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes R316.4/R316.6 Thermal Barrier Specific Approval R316.5.3 (AC377 Appx X) Foam Plastic in Attics R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces		<b>Chapter 3 Building and Planning</b> R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes R316.4/R316.6 Thermal Barrier Specific Approval R316.5.3 (AC377 Appx X) Foam Plastic in Attics R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces
NATIONAL FIRE PROTECTION ASSOCIATION® (NFPA®) 101		
2018	2015	2012
<b>Chapter 10 Interior Finish</b> 10.2.3 Interior Wall/Ceiling Finish Testing & Classification 10.2.3.4 Required to be Tested ASTM E84 or UL 723 10.2.4.3 Cellular or Foamed Plastic (SIPs) 10.2.4.3.1 Cellular or Foamed Plastic Testing (SIPs) 10.2.4.3.2 Cellular or Foamed Plastic Trim (SIPs) 10.2.6.1 Fire Retardant Coatings FSI/SD <b>Chapter 33 Existing Residential Board/Care Occupancies</b> 33.2.3.5.7.2(4)/1.4 Attics	<b>Chapter 10 Interior Finish</b> 10.2.3 Interior Wall/Ceiling Finish Testing & Classification 10.2.3.4 Required to be Tested ASTM E84 or UL 723 10.2.4.3 Cellular or Foamed Plastic (SIPs) 10.2.4.3.1 Cellular or Foamed Plastic Testing (SIPs) 10.2.4.3.2 Cellular or Foamed Plastic Trim (SIPs) 10.2.6.1 Fire Retardant Coatings FSI/SD <b>Chapter 33 Existing Residential Board/Care Occupancies</b> 33.2.3.5.7.2(4)/1.4 Attics	<b>Chapter 10 Interior Finish</b> 10.2.3 Interior Wall/Ceiling Finish Testing & Classification 10.2.3.4 Required to be Tested ASTM E84 or UL 723 10.2.4.3 Cellular or Foamed Plastic (SIPs) 10.2.4.3.1 Cellular or Foamed Plastic Testing (SIPs) 10.2.4.3.2 Cellular or Foamed Plastic Trim (SIPs) 10.2.6.1 Fire Retardant Coatings FSI/SD <b>Chapter 33 Existing Residential Board/Care Occupancies</b> 33.2.3.5.7.2(4)/1.4 Attics

Table 4

*Green Standards*

**ANSI/ASHRAE/ICC/USGBC STANDARD 189.1**

2017

2014

**8. Indoor Environmental Quality (IEQ)**

- 8.4.2.2 Paints and Coatings
- 8.4.2.2.1 Emissions Requirements
- 8.4.2.2.2 VOC Content Requirements: a and b
- 8.5.2 Materials

**9. The Buildings Impact on the Atmosphere, Materials, and Resources**

- 9.3.1.1 Diversion
- 9.3.1.2 Total Waste
- 9.3.1.3 Construction Waste Management Plan
- 9.4.1.2 Regional Materials

**8. Indoor Environmental Quality (IEQ)**

- 8.4.2.2 Paints and Coatings
- 8.4.2.2.1 Emissions Requirements
- 8.4.2.2.2 VOC Content Requirements
- 8.5.2 Materials

**9. The Building's Impact on the Atmosphere, Materials, and Resources**

- 9.3.1.1 Diversion
- 9.3.1.2 Total Waste
- 9.3.1.3 Construction Waste Management Plan
- 9.4.1.2 Regional Materials

**CALIFORNIA AIR RESOURCES BOARD (ARB)**

2008

**8. Compliance and Test Methods**

- 8.1 Calculation of VOC Content
- 8.2 VOC Content of Coatings
- 8.5.9 VOC Content of Coatings
- Table 1, VOC Content Limits for Architectural Coatings: Flat Coatings

**CALIFORNIA DEPARTMENT OF PUBLIC HEALTH (CDPH)**

2017

2010

**STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOC EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS V1.2 California Specification 01350**

**STANDARD METHOD FOR THE TESTING AND EVALUATION OF VOC EMISSIONS FROM INDOOR SOURCES USING ENVIRONMENTAL CHAMBERS V1.1 California Specification 01350**

**COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS)**

2017

2016

**Core Criteria New Construction and Renovation**

**Indoor Environmental Quality**

- Prerequisite: EQ 7.0 Low Emitting Materials/Paints & Coatings
- EQ 7.1 Additional Low Emitting Materials/EQ 7.1.5 Paints & Coatings

**Materials & Waste Management**

- Prerequisite MW 1.0 Storage & Collection Recyclables

**Core Criteria New Construction and Renovation**

**Indoor Environmental Quality**

- Prerequisite: EQ 7.0 Low Emitting Materials/Paints & Coatings
- EQ 7.1 Additional Low Emitting Materials/EQ 7.1.5 Paints & Coatings

**Materials & Waste Management**

- Prerequisite MW 1.0 Storage & Collection Recyclables

**GENERAL SERVICES ADMINISTRATION (GSA) PUBLIC BUILDING SERVICE (PBS) - P100**

2017

2016

**Chapter 3 Architecture and Interior Design**

- 3.5.2.19 Interior Coatings (Paint)

**Chapter 4 Prescriptive Structural Engineering**

- 4.3.1 Innovative Materials and Methods

**Chapter 7 Fire Protection**

- 7.1.3.3 Alternative Designs
- 7.15 Performance-Based Design

**Chapter 3 Architecture and Interior Design**

- 3.5.2.19 Interior Coatings (Paint)

**Chapter 4 Structural Engineering**

- 4.3.1 Innovative Materials and Methods

**Chapter 7 Fire Protection and Life Safety**

- 7.3.1.3 Alternative Designs
- 7.15 Performance-Based Design

**ICC/ASHRAE 700 NATIONAL GREEN BUILDING STANDARD™ (NGBS)**

2015

2012

**Chapter 6 Resource Efficiency**

- 605.3 Recycled Construction Materials
- 609.1 Regional Materials

**Chapter 9 Indoor Environmental Quality**

- 901.8 Wall Coverings
- 901.9 Interior Architectural Coatings
- 901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 901.9.3
- 904.1 Indoor Air Quality (IAQ) During Construction
- 904.2 Indoor Air Quality (IAQ) Post Construction

**Chapter 11 Remodeling**

- 11.605.3 On-site Recycling
- 11.605.4 Recycled Construction Materials
- 11.609.1 Regional Materials
- 11.901.8 Wall Coverings
- 11.901.9 Interior Architectural Coatings
- 11.901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 11.901.9.3
- 11.901.9.4 Mandatory Requirement
- 11.904.1 Indoor Air Quality (IAQ) During Construction
- 11.904.2 Indoor Air Quality (IAQ) Post Construction

**Chapter 12 Remodeling of Functional Areas**

- 12.1(A).609.1 Regional Materials
- 12.1.901.8 Interior Wall Coverings
- 12.1.901.9 Architectural Coatings
- 12.1.901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 12.1.901.9.2

**Chapter 6 Resource Efficiency**

- 605.3 Recycled Construction Materials
- 609.1 Regional Materials

**Chapter 9 Indoor Environmental Quality**

- 901.8 Wall Coverings
- 901.9 Interior Architectural Coatings
- 901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 901.9.3

**Chapter 11 Remodeling**

- 11.605.3 On-site Recycling
- 11.605.4 Recycled Construction Materials
- 11.609.1 Regional Materials
- 11.901.8 Wall Coverings
- 11.901.9 Interior Architectural Coatings
- 11.901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 11.901.9.3
- 11.901.9.4 Mandatory Requirement

**Chapter 12 Remodeling of Functional Areas**

- 12.1(A).609.1 Regional Materials
- 12.1.901.8 Interior Wall Coverings
- 12.1.901.9 Architectural Coatings
- 12.1.901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 12.1.901.9.2

INTERNATIONAL GREEN CONSTRUCTION CODE® (IgCC®)	
2018	2015
<b>8. Indoor Environmental Quality (IEQ)</b> 8.4.2.2 Paints and Coatings 8.4.2.2.1 Emissions Requirements 8.4.2.2.2 VOC Content Requirements: a and b 8.5.2 Materials <b>9. The Buildings Impact on the Atmosphere, Materials, and Resources</b> 9.3.1.1 Diversion 9.3.1.2 Total Waste 9.3.1.3 Construction Waste Management Plan 9.4.1.2 Regional Materials	<b>Chapter 5 Material Resource Conservation and Efficiency</b> 503.1 Construction Material and Waste Management Plan  <b>Chapter 8 Indoor Environmental Quality and Comfort</b> 806.3 Architectural Paints and Coatings/Table 806.3(1) or 806.3(2)
U.S. GREEN BUILDING COUNCIL® LEED®	
v4 2018	v3 2009
<b>BUILDING DESIGN (BD) AND CONSTRUCTION (C)</b> <b>Materials and Resources (MR)</b> MR Prerequisite: Storage and Collection of Recyclables MR Credit: Building Life-Cycle Impact Reduction: Option 1 or Option 2 MR Credit: Building Product Disclosure and Optimization- Material Ingredients: Option 2 International Alternative Compliance Path- Reach Optimization MR Credit: Construction and Demolition Waste Management <b>Indoor Environmental Quality (EQ)</b> EQ Credit: Low-Emitting Materials: Option 1 <b>Innovation in Design (ID)</b> Credit 1 Innovation in Design <b>HOMES DESIGN (HD) and CONSTRUCTION (C)</b> <b>Materials and Resources (MR)</b> MR Credit: Construction Waste Management <b>Indoor Environmental Quality (EQ)</b> EQ Credit: Low-Emitting Products <b>INTERIOR DESIGN (ID) and CONSTRUCTION (C)</b> <b>Materials and Resources (MR)</b> MR Prerequisite: Storage and Collection of Recyclables MR Credit: Building Product Disclosure and Optimization- Material Ingredients: Option 2 International Alternative Compliance Path- Reach Optimization MR Credit: Construction and Demolition of Waste Management <b>Indoor Environmental Quality (EQ)</b> EQ Credit: Low-Emitting Materials: Option 1 <b>Innovation in Design (ID)</b> Credit 1 Innovation in Design	<b>NEW CONSTRUCTION AND MAJOR RENNOVATIONS</b> <b>Materials and Resources (MR)</b> MR Credit 1.1 Building Reuse- Maintain Existing Walls, Floors & Roofs MR Credit 1.2 Building Reuse- Maintain Interior Nonstructural Elements MR Credit 2 Construction Waste Management MR Credit 5 Regional Materials  <b>Indoor Environmental Quality (IEQ)</b> IEQ Credit 4.2 Low Emitting Materials- Paints & Coatings <b>Innovation in Design (ID)</b> Credit 1 Innovation in Design
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1113	
2016	2013
<b>Table of Standards 1, VOC Limits</b> Flats (e) Test Methods (e)(1)(A) U.S. EPA Reference Test Method 24	<b>Table of Standards 1, VOC Limits</b> Flats (e) Test Methods (e)(1)(A) U.S. EPA Reference Test Method 24

No-Burn, Inc.  
**SALES INFORMATION AND ORDER PLACEMENT**  
**1-800-989-8577**  
**TECHNICAL INFORMATION**  
**1-800-989-8577**  
[www.noburn.com](http://www.noburn.com)

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**UPDATES AND CURRENT INFORMATION** Revised 7-Mar-2019. The information in this document may change without notice.

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## FABRICANTE

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## DESCRIPCIÓN

No-Burn® Plus ThB es un recubrimiento intumescente de película delgada a base de agua color blanco que, cuando se expone a altas temperaturas y a llamas, se hincha y se carboniza para crear una barrera aislante que protege los *Sustratos* tratados del fuego. Este material está certificado para aplicarse en una gran variedad de *Sustratos* y la conformidad con la reacción al fuego se logra con el adecuado espesor de película húmeda.

## 1. PRINCIPALES USOS

Plus ThB se puede usar en edificios nuevos y existentes, de conformidad con las normas IBC®, IRC®, IEBC® y otros códigos o normas aplicables, y se utiliza en aplicaciones donde se ofrece:

- Clasificación de acabado interior clase I o clase A: FS 0 / SD 10
- Barrera térmica alternativa o no prescriptive
- Barrera de ignición alternativa o no prescriptiva
- Resistencia al vapor de Clase III

Consultar el [Informe de Evaluación \(ER 305\)](#) para obtener más información.

## 2. ESPECIFICACIONES

Color:	Opaco/Blanco/Tintado
Acabado:	Plano
Contenido de químicos orgánicos volátiles:	18 g/l método EPA 24
Tiempo de secado:	De 60 a 90 minutos
Cubetas:	5 galones (19 l), 57.5 lbs
Tambores:	55 galones (208 l), 632.5 lbs
Vida útil:	18 meses
Tiempo de curado:	24 horas
Punto de ebullición:	212 °F (97.7 °C)
Punto de congelamiento:	32 °F (0 °C)
% volátil por volumen:	36%
Gravedad específica:	1.25

Consultar la [ficha de datos de seguridad \(MSDS\)](#) del producto para obtener información adicional.

## 3. RENDIMIENTO DEL PRODUCTO

No-Burn® Plus ThB puede usarse para los usos principales expresados. Como componente de un conjunto de barrera de ignición alternativa o conjunto de barrera térmica, Plus ThB es un revestimiento intumescente contra incendios para espacios interiores donde se instala espuma de poliuretano en aerosol. Aplicado en una aplicación de una sola capa, Plus ThB protege de forma pasiva la superficie de espuma en aerosol al retrasar el aumento de temperatura de la espuma y al retrasar o evitar que la espuma se encienda.

Aplicable para espuma de poliuretano en spray de células cerradas y células cerradas, Plus ThB proporciona protección contra incendios y retardancia a la vaporización de Clase III según lo exige el código para la construcción residencial, comercial y comercial. Cumple con los requisitos del USDA para contacto incidental con alimentos y materiales ANSI / NSF 51 para la zona de alimentos.

## 4. NORMAS APLICABLES

No-Burn® Plus ThB puede ser especificado en el cumplimiento de los siguientes:

AC377	GSA PBS-P100
AC456	ICC/ASHRAE 700 NGBS
Normas ANSI/ASHRAE/ICC/USGBC 189.1	IgCC
Normas ANSI/NSF 51	LEED v3 2009
ASTM E96	LEED v4
CARB	NFPA 286
CDPH (CA Spec 01350)	SCAQMD Regla 1113
CHPS	UL 1715
EC017	

Tabla 1			
Sustrato			
Material	TB <sup>1</sup> or IB <sup>2</sup>	Grosor de Película	Índice de propagación
BASF Evertite G Celda Abierta SPF	TB	14 húmedo	115 sq. ft./gal.
BASF Evertite NM Celda Abierta SPF	TB	14 húmedo	115 sq. ft./gal.
BASF Evertite IB-418 Celda Abierta SPF	TB	14 húmedo	115 sq. ft./gal.
BASF Spraytite SP Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
BASF Spraytite 158 Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
BASF Spraytite 81205 Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
BASF Spraytite 178 Célula Cerrada SPF	TB	17 húmedo	94 sq. ft./gal.
BASF Spraytite 81206 Célula Cerrada SPF	TB	17 húmedo	94 sq. ft./gal.
BASF Walltite HP+ Célula Cerrada SPF	TB	17 húmedo	94 sq. ft./gal.
BASF Walltite US-N Célula Cerrada SPF	TB	17 húmedo	94 sq. ft./gal.
BASF Walltite US Célula Cerrada SPF	TB	17 húmedo	94 sq. ft./gal.
BASF Walltite 200 Célula Cerrada SPF	TB	17 húmedo	94 sq. ft./gal.
Icynene Classic (LD-C-50™) de Celda Abierta SPF	TB	16 húmedo	100 sq. ft./gal.
Icynene Classic Ultra Célula Abierta SPF	TB	16 húmedo	100 sq. ft./gal.
Icynene Classic Ultra Select Célula Abierta SPF	TB	16 húmedo	100 sq. ft./gal.
Icynene Classic Plus Celda Abierta SPF	TB	16 húmedo	100 sq. ft./gal.
Icynene Prime Gold Celda Abierta SPF	TB	16 húmedo	100 sq. ft./gal.
Icynene ProSeal Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Icynene ProSeal LE Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Icynene ProSeal Eco Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Icynene ProSeal HFO Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Icynene ProSeal HFO CW Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Icynene MD-C-200 Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Johns Manville JM Corbond Celda Abierta SPF	TB	14 húmedo	115 sq. ft./gal.
Johns Manville JM Corbond OCX Celda Abierta SPF	TB	14 húmedo	115 sq. ft./gal.
Johns Manville JM Corbond III Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Johns Manville JM Corbond MCS Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Lapolla Foam-Lok FL 500 Celda Abierta SPF	TB	14 húmedo	115 sq. ft./gal.
Lapolla Foam-Lok FLX-500 Celda Abierta SPF	TB	14 húmedo	115 sq. ft./gal.
Lapolla Foam-Lok FL 450 Celda Abierta SPF	TB	16 húmedo	100 sq. ft./gal.
Lapolla Foam-Lok FL 750 Celda Abierta SPF	TB	16 húmedo	100 sq. ft./gal.
Lapolla Foam-Lok FL 2000-4G Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Lapolla Foam-Lok FL 2000 Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
SWD Quik-Shield 108 Célula Abierta SPF	TB	14 húmedo	115 sq. ft./gal.
SWD Quik-Shield 112XC Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
SWD Quik-Shield 118 Célula Cerrada SPF	TB	14 húmedo	115 sq. ft./gal.
Acella Bayseal™ OC de Célula Abierta SPF	IB	6 húmedo	267 sq. ft./gal.
BASF COMFORT FOAM® 178 Célula cerrada SPF	IB	12 húmedo	134 sq. ft./gal.
BASF ENERTITE® NM de Célula Abierta SPF	IB	6 húmedo	267 sq. ft./gal.
BASF ENERTITE® US de Célula Abierta SPF	IB	12 húmedo	134 sq. ft./gal.
BASF SPRAYTITE® 158 de Célula Cerrada SPF	IB	6 húmedo	267 sq. ft./gal.
BASF SPRAYTITE® 178 de Célula Cerrada SPF	IB	12 húmedo	134 sq. ft./gal.
BASF SPRAYTITE® 81205 de Célula Cerrada SPF	IB	6 húmedo	267 sq. ft./gal.
BASF SPRAYTITE® 81206 de Célula cerrada SPF	IB	12 húmedo	134 sq. ft./gal.
BASF SPRAYTITE® SP de Célula Cerrada SPF	IB	6 húmedo	267 sq. ft./gal.
BASF WALLTITE® HP+ de Célula Cerrada SPF	IB	12 húmedo	134 sq. ft./gal.
BASF WALLTITE® US de Célula Cerrada SPF	IB	12 húmedo	134 sq. ft./gal.
BASF WALLTITE® US-N de Célula Cerrada SPF	IB	12 húmedo	134 sq. ft./gal.
Convenience Touch 'n Seal® 2.0 pcf de Célula Cerrada	IB	8 húmedo	200 sq. ft./gal.
Demilec SEALECTION® 500 de Célula Abierta SPF	IB	6 húmedo	267 sq. ft./gal.
Demilec SEALECTION Agribalance® de Célula Abierta	IB	10 húmedo	160 sq. ft./gal.

Tabla 1 Continúa

Sustrato			
Material	TB <sup>1</sup> or IB <sup>2</sup>	Grosor de Película	Índice de propagación
Paneles R-Sheathing de Huber ZIP System® (R-3 y R-6)	IB	10 húmedo	160 sq. ft./gal.
ICP Handi-Foam® E-84 Clase 1(A) de Célula Cerrada	IB	10 húmedo	160 sq. ft./gal.
Icynene Classic (LD-C-50™) Célula Abierta SPF	IB	6 húmedo	267 sq. ft./gal.
Icynene Classic Ultra Célula Abierta SPF	IB	6 húmedo	267 sq. ft./gal.
Icynene Classic Ultra Select Célula Abierta SPF	IB	6 húmedo	267 sq. ft./gal.
Icynene Classic Plus (LD-C-70™) Célula Abierta SPF	IB	6 húmedo	267 sq. ft./gal.
Icynene MD-C-200 Célula Cerrada SPF	IB	16 húmedo	100 sq. ft./gal.
Icynene ProSeal Eco (MD-R-200) Célula Cerrada SPF	IB	5 húmedo	320 sq. ft./gal.
Tiger Foam® E-84 Clase 1 SPF	IB	10 húmedo	160 sq. ft./gal.

<sup>1</sup> ER 305 Conjuntos alternativos de barrera térmica (TB) Tabla 2

<sup>2</sup> ER 305 Conjuntos alternativos de barrera de ignición (IB) Tabla 3

## 5. MEZCLA, PINTADO Y SOBRETUBOS

Plus ThB debe mezclarse bien antes de usar de acuerdo con las recomendaciones del fabricante. Mezcle con una varita de mezcla de 5 galones de potencia a o entre 500-1500 RPM durante un tiempo de mezcla de 5 minutos por cubo. Agitar No-Burn® Plus ThB con un agitador de pintura NO es suficiente. No se recomienda filtrar o filtrar Plus ThB. Si No-Burn® Plus ThB se mezcla más de 24 horas antes de usarlo, vuelva a mezclarlo de acuerdo con las instrucciones del fabricante.

Generalmente no se necesita adelgazar; Si Plus ThB ha estado expuesto a altas temperaturas, el agua puede evaporarse del contenedor plástico de 5 galones. Si el nivel de pintura está por debajo de 3-4 pulgadas desde la parte superior del recipiente, agregue suficiente agua para que el nivel vuelva a estar a 3 pulgadas de la parte superior para garantizar la consistencia adecuada. Mezcle Plus ThB nuevamente de acuerdo con las instrucciones del fabricante.

Después de mezclar durante 5 minutos, si la viscosidad sigue siendo demasiado alta, puede agregar 8 onzas de agua por cubo de 5 galones y mezclar para reducir la viscosidad. Mezcle Plus ThB nuevamente de acuerdo con las instrucciones del fabricante. Tenga cuidado de no agregar demasiada agua o el producto podría correr y gotear durante la aplicación.

Plus ThB nunca debe permitirse que se congele a 32 ° F (0 ° C), almacenado entre 40 ° F y 90 ° F (4.4 ° C y 32.2 ° C), y se mantenga alejado de la luz solar directa; Si no puede verificar que se han mantenido estas condiciones, el producto se puede desechar de acuerdo con la FDS (M) del fabricante.

Si se desea teñir, Plus ThB se puede teñir a una velocidad máxima de 2 oz. de tinte por galón. Se recomienda utilizar No-Burn® Green Dye o No-Burn® Black Tint, fabricado por No-Burn, Inc., para teñir. Póngase en contacto con el fabricante para obtener información adicional sobre el tintado.

Cuando se desea un color específico o negro, se puede usar un abrigo, como el negro Sherwin Williams A-100 o Behr Premium Plus. Los abrigos deben ser a base de agua con un pH de 7-8. Antes del uso de cualquier abrigo, se recomienda que se realice una prueba de compatibilidad en un área poco visible antes de una aplicación generalizada. La compatibilidad puede observarse como la condición general satisfactoria del *Sustrato(s)* una vez que se han aplicado No-Burn® Plus ThB y un abrigo.

Para reciclar en cubos visite <http://www.wbdg.org/tools/cwm.php>.

## 6. APLICACIÓN

Al aplicar No-Burn® Plus ThB, el recubrimiento debe aplicarse al *Sustrato(s)*, según corresponda, de acuerdo con el Informe de evaluación (ER) 305 y / o las hojas de datos técnicos del fabricante. Copias de datos técnicos relevantes y / o documentos estarán disponibles en el lugar de trabajo.

Antes y durante la aplicación del recubrimiento, las superficies del *Sustrato(s)* deberán estar secas, limpias y libres de suciedad, polvo, aceite, grasa, y todo material de recubrimiento anterior, como son pinturas, tintes y selladores. La espuma debe dejarse enfriar a temperatura ambiente antes de la aplicación de No-Burn® Plus ThB, por lo menos 1 hora. El *Sustrato(s)* no debe tener, ni haber sido expuesto a, tratamientos, sustancias químicas, recubrimientos, etc. antes de la aplicación de Plus ThB. La observación visual de un recubrimiento intumesciente es de un distintivo color blanco por naturaleza. Para la verificación del espesor aplicado en húmedo, se debe usar un medidor de espesores estándar para pintores durante la aplicación.

El espesor del producto seco será de 0.40 a 0.70 veces el espesor húmedo. Plus ThB se aplicará en los *Sustrato(s)*, según corresponda, de conformidad con las recomendaciones del fabricante. Los *Sustrato(s)* deberán estar en su posición final en el edificio, expuestos directamente al interior, protegidos de la intemperie, en lugares acondicionados y no acondicionados. Además, Plus ThB se aplicará en las zonas dentro de la membrana impermeabilizante o superficies no expuestas a la intemperie.

La temperaturas de la superficie y la ambiental antes y durante la aplicación será de al menos 40 ° F (4.4 ° C). Las temperaturas de superficie no deben exceder de 100 ° F (37.7 ° C) durante la aplicación. El recubrimiento se aplicará en una tasa de aplicación establecida mediante atomización, rodillo o pincel.

El tiempo de secado es típicamente de 60 a 90 minutos y el tiempo de curado es de 24 horas como mínimo, aunque depende de la temperatura ambiente y la humedad relativa. Si es necesario aplicar más de una capa, deje secar el No-Burn® Plus ThB completamente entre capas.

## 7. EQUIPO

Los métodos de aplicación pueden incluir atomizadores sin aire (airless), rodillo o brocha. Los fabricantes de *Equipos* y los modelos de *Equipo* atomizador de aplicador sin aire (airless) varían y a continuación presentamos ejemplos de *Equipos* aplicables. Las recomendaciones de los *Equipos* atomizadores de aplicador sin aire (airless) contienen enlaces a las especificaciones del fabricante para referencia.

Tabla 2

Equipo		
Fabricante	Modelo	
Graco®	<a href="#">Ultra Max II 795</a>	<a href="#">Ultra Max II 1595</a>
	<a href="#">Ultra Max II 1095</a>	<a href="#">TexSpray Mark V</a>
Titan®	<a href="#">Impact™ 840</a>	<a href="#">PowrTwin™ 6900 Plus</a>
	<a href="#">Impact™ 1140</a>	<a href="#">PowrTwin™ 8900 Plus</a>

El *Equipo* atomizador debe ser capaz de producir un mínimo de 3,300 psi y se recomienda usar boquillas con orificio de tamaño 0.025 a 0.031. Se recomienda quitar los filtros de la pistola atomizadora y de la bomba para permitir el paso del contenido sólido. Se recomienda que las manguerapara atomizadores sin aire (airless) tengan un diámetro interior de ¼" o superior.

Probablemente se requieran variaciones en el ancho del patrón de atomizado y el tamaño de la boquilla según el área expuesta y el *Sustrato(s)* donde se aplica el producto. La limpieza de los *Equipos* se puede llevar a cabo con agua, u otros métodos recomendados por el fabricante del *Equipo*.

## 8. PROTECCIÓN PERSONAL Y CONTROLES DE EXPOSICIÓN

Se recomienda usar un respirador certificado y gafas de seguridad para evitar el rociado y salpicaduras. La protección para los ojos y la cara debe estar en conformidad con la norma OSHA 29 CFR 1910,133. Se recomienda usar guantes de goma o plástico para la protección de manos y brazos. La limpieza personal puede ser con agua y jabón.

Si se aplica con atomizador, utilizar un respirador con purificador de aire aprobado por NIOSH de conformidad con la norma OSHA 29 CFR 1910,134 (d)(1)(ii). Si se utiliza en un área limitada, se recomienda utilizar un respirador con purificador de aire de cara completa (PAPR) o un respirador con suministro de aire (SAR). Utilizar los respiradores de conformidad con las normas 29 CFR 1910,134 (d)(3)(i) (A) Cuadro 1, 29 CFR 1910.134(d)(3)(iii)(B) y 29 CFR 1910.134(d)(3)(iv)(B).

Utilizar controles de ingeniería adecuados, como una ventilación adecuada. Cuando estos sistemas no son eficaces, se debe usar equipo de protección personal adecuado, que funcione de manera satisfactoria y cumpla con la norma OSHA u otras normas reconocidas.

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**POLÍTICA Y PROCEDIMIENTOS** Toda venta de este producto por parte de No-Burn, Inc. están sujeta a nuestra política y procedimientos disponibles en <http://noburn.com/polices-procedures>

**NOTICIAS E INFORMACIÓN ACTUAL** Revisado 7-Mar-2019. La información contenida en este documento puede cambiar sin previo aviso.

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