MANUFACTURER

No-Burn, Inc.
1392 High Street, Suite 211
Wadsworth, Ohio 44281
www.noburn.com

DESCRIPTION

No-Burn® Plus XD is a light gray, 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 XD is utilized in applications where it provides:

- Interior Finish Classification Class 1 or Class A
- Alternative or Non-prescriptive Ignition Barrier Protection
- Class III Vapor Retardency

Code Compliance Evaluation Reports: ER 305 & TER 1905-03.

Installation Verification: SPFA-148.

2. SPECIFICATIONS

Color:	Opaque/Light Gray/Tinted
Finish:	Flat
VOC Content:	18 g/L EPA Method 24
Dry Time:	60-90 Minutes
Pails:	5 Gallons (19 L), 55 lbs.
Drums:	55 Gallons (208 L), 605 lbs.
Shelf Life:	24 Months
Cure Time:	24 Hours
Boiling Point:	212°F
Freezing Point:	32°F
% Volatile by Volume:	36%
Specific Gravity:	1.25

View product Safety Data Sheet (M)SDS and Best Practices for Safe Handling & Storage for more information.

3. PRODUCT PERFORMANCE

No-Burn® Plus XD may be used in the *Primary Uses* expressed. Applied in a one-coat application, Plus XD is spray-applied within attics and crawlspaces where spray polyurethane foam is installed.

As a component in an alternative ignition barrier assembly, Plus XD is passively protecting the spray foam surface from ignition. Applicable for open cell and closed cell spray polyurethane foam, Plus XD provides the fire protection and Class III vapor retardency 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 XD may be specified in compliance of the following:

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

Table 1
Substrates

Material[1]	Film Thickness	Spread Rate
BASF Enertite® G Open Cell SPF	6 wet	267 sq. ft./gal.
BASF Enertite® NM Open Cell SPF	6 wet	267 sq. ft./gal.
BASF Spraytite® 158 Closed Cell SPF	6 wet	267 sq. ft./gal.
BASF Spraytite® 81205 Closed Cell SPF	6 wet	267 sq. ft./gal.
BASF Spraytite® SP Closed Cell SPF	6 wet	267 sq. ft./gal.
BASF Spraytite® Comfort Closed Cell SPF	6 wet	267 sq. ft./gal.
BASF Spraytite® Comfort Plus Closed Cell SPF	6 wet	267 sq. ft./gal.
BASF Spraytite® Comfort XL Closed Cell SPF	6 wet	267 sq. ft./gal.
BASF Spraytite® LWP-L Closed Cell SPF	6 wet	267 sq. ft./gal.
BASF Enertite® US Open Cell SPF	12 wet	134 sq. ft./gal.
BASF Spraytite® 178 Closed Cell SPF	12 wet	134 sq. ft./gal.
BASF Spraytite® 81206 Closed Cell SPF	12 wet	134 sq. ft./gal.
BASF Walltite® US Closed Cell SPF	12 wet	134 sq. ft./gal.
BASF Walltite® US-N Closed Cell SPF	12 wet	134 sq. ft./gal.
BASF Walltite® HP+ Closed Cell SPF	12 wet	134 sq. ft./gal.
BASF Walltite® LWP Closed Cell SPF	12 wet	134 sq. ft./gal.
BASF Walltite® HP+S Closed Cell SPF	12 wet	134 sq. ft./gal.
BASF Walltite® 200 Closed Cell SPF	12 wet	134 sq. ft./gal.
Carlisle SealTite Pro Open Cell SPF	6 wet	267 sq. ft./gal.
Carlisle Foamsulate 50 HY Open Cell SPF	6 wet	267 sq. ft./gal.
Carlisle SealTite Pro High Yield Open Cell SPF	6 wet	267 sq. ft./gal.
Carlisle Foamsulate 50 Open Cell SPF	6 wet	267 sq. ft./gal.
Carlisle SealTite Pro No Mix Open Cell SPF	6 wet	267 sq. ft./gal.
Convenience Touch 'n Seal® 2.0 pcf Closed Cell SPF	8 wet	200 sq. ft./gal.
Demilec SEALECTION® 500 Open Cell SPF	6 wet	267 sq. ft./gal.
Demilec SEALECTION Agribalance® Open Cell SPF	10 wet	160 sq. ft./gal.
Huber ZIP System® R-Sheathing Panels (R-3 & R-6)	10 wet	160 sq. ft./gal.
ICP Handi-Foam® E-84 Class 1(A) Closed Cell SPF	10 wet	160 sq. ft./gal.
Icynene Classic Open Cell SPF	6 wet	267 sq. ft./gal.
Icynene Classic Ultra Open Cell SPF	6 wet	267 sq. ft./gal.
Icynene Classic Ultra Select Open Cell SPF	6 wet	267 sq. ft./gal.
Icynene Classic Plus Open Cell SPF	6 wet	267 sq. ft./gal.
Icynene Prime Gold Open Cell SPF	6 wet	267 sq. ft./gal.
Icynene MD-C-200 Closed Cell SPF	16 wet	100 sq. ft./gal.
Icynene ProSeal Eco (MD-R-200) Closed Cell SPF	5 wet	320 sq. ft./gal.
Lapolla FL 450 Open Cell SPF	6 wet	267 sq. ft./gal.
Lapolla FL 750 Open Cell SPF	6 wet	267 sq. ft./gal.
Tiger Foam® E-84 Class 1 SPF	10 wet	160 sq. ft./gal.

[1] Alternative Ignition Barrier (IB) Assemblies; Evaluation Reports: ER 305 Table 3 & TER 1905-03 Table 2.

5. 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®	Ultra Max II 795	Ultra Max II 1595
	Ultra Max II 1095	TexSpray Mark V
Titan®	Impact™ 840	PowrTwin™ 6900 Plus
	Impact™ 1140	PowrTwin™ 8900 Plus
Recommended tip orifice sizes of .025 - .031 and airless sprayer hoses inside diameter of ¼" or larger.		

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 XD is being applied. Cleanup of *Equipment* may be with water, or other methods recommended by the *Equipment* manufacturer.

6. 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.

7. MIXING, TINTING and OVERCOATS

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

Plus XD 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 XD 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 XD and an overcoat have been applied.

8. APPLICATION

When applying No-Burn® Plus XD, the coating shall be applied to *Substrate(s),* as applicable, in accordance with Evaluation Report (ER) 305, Evaluation Report (TER) 1905-03 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 *Substrate(s)* shall not have, nor have been exposed to, treatments, chemicals, coatings, etc. prior to the application of Plus XD.

Visual observation of the intumescent coating is naturally and distinctively light gray 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 XD 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 XD to dry completely between coats.

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

Table 3

Code Compliance

INTERNATIONAL BUILDING CODE® (IBC®)

2018	2015
Chapter 8 Interior Finish 803.1.1 Interior Wall and Ceiling Finish Materials NFPA 286 **Chapter 26 Plastic** 2603.4.1.6 Attics and Crawl Spaces	**Chapter 8 Interior Finish** 803.1.2 Corner Test for Interior Wall or Ceiling Finish **Chapter 26 Plastic** 2603.4.1.6 Attics and Crawl Spaces
2012	**2009**
Chapter 8 Interior Finish 803.1.2 Corner Test for Interior Wall or Ceiling Finish **Chapter 26 Plastic** 2603.4.1.6 Attics and Crawl Spaces	**Chapter 8 Interior Finish** 803.1.2 Corner Test for Interior Wall or Ceiling Finish **Chapter 26 Plastic** 2603.4.1.6 Attics and Crawl Spaces

INTERNATIONAL RESIDENTIAL CODE® (IRC®)

2018	2015
Chapter 3 Building and Planning R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes R316.5.3 (AC377 Appx X) Foam Plastic in Attics R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces	**Chapter 3 Building and Planning** R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes R316.5.3 (AC377 Appx X) Foam Plastic in Attics R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces
2012	**2009**
Chapter 3 Building and Planning R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes R316.5.3 (AC377 Appx X) Foam Plastic in Attics R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces	**Chapter 3 Building and Planning** R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes R316.5.3 (AC377 Appx X) Foam Plastic in Attics R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces **Chapter 8 Roof-Ceiling and Construction** R806.4(4) Unvented Attic and Unvented Enclosed Rafter Assemblies

NATIONAL FIRE PROTECTION ASSOCIATION® (NFPA®) 101

2018	2015	2012
Chapter 10 Interior Finish 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) 10.2.4.3.3 Cellular or Foamed Plastic Testing (SIPs) 10.2.4.3.4 Cellular or Foamed Plastic Trim (SIPs) 10.2.6.1 Fire Retardant Coatings FSI/SD **Chapter 33 Existing Residential Board/Care Occupancies** 33.2.3.5.7.2(4)/1.4 Attics	**Chapter 10 Interior Finish** 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 **Chapter 33 Existing Residential Board/Care Occupancies** 33.2.3.5.7.2(4)/1.4 Attics	**Chapter 10 Interior Finish** 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 **Chapter 33 Existing Residential Board/Care Occupancies** 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 8.4.2.2.1/8.4.2.2.2 Emissions Requirements & 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 9.4.1.1.2 Salvaged Material Content 9.4.1.2 Regional Materials	**8. Indoor Environmental Quality (IEQ)** 8.4.2.2 Paints and Coatings 8.4.2.2.1/8.4.2.2.2 Emissions Requirements & 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 9.4.1.1.2 Salvaged Material Content 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**

Table 4 continued

COLLABORATIVE FOR HIGH PERFORMANCE SCHOOLS (CHPS)	
2017	**2016**
Core Criteria New Construction and Renovation	**Core Criteria New Construction and Renovation**
Indoor Environmental Quality	**Indoor Environmental Quality**
Prerequisite: EQ 7.0 Low Emitting Materials/Paints & Coatings	Prerequisite: EQ 7.0 Low Emitting Materials/Paints & Coatings
EQ 7.1 Additional Low Emitting Materials/EQ 7.1.5 Paints & Coatings	EQ 7.1 Additional Low Emitting Materials/EQ 7.1.5 Paints & Coatings
Materials & Waste Management	**Materials & Waste Management**
Prerequisite MW 1.0 Storage & Collection Recyclables	Prerequisite MW 1.0 Storage & Collection Recyclables

GENERAL SERVICES ADMINISTRATION (GSA) PUBLIC BUILDING SERVICE (PBS) - P100	
2017	**2016**
Chapter 3 Architecture and Interior Design	**Chapter 3 Architecture and Interior Design**
3.5.2.19 Interior Coatings (Paint)	3.5.2.19 Interior Coatings (Paint)
Chapter 4 Prescriptive Structural Engineering	**Chapter 4 Structural Engineering**
4.3.1 Innovative Materials and Methods	4.3.1 Innovative Materials and Methods
Chapter 7 Fire Protection	**Chapter 7 Fire Protection and Life Safety**
7.1.3.3 Alternative Designs	7.3.1.3 Alternative Designs
7.15 Performance-Based Design	7.15 Performance-Based Design

ICC/ASHRAE 700 NATIONAL GREEN BUILDING STANDARD™ (NGBS)	
2015	**2012**
Chapter 6 Resource Efficiency	**Chapter 6 Resource Efficiency**
605.3 Recycled Construction Materials	605.3 Recycled Construction Materials
609.1 Regional Materials	609.1 Regional Materials
Chapter 9 Indoor Environmental Quality	**Chapter 9 Indoor Environmental Quality**
901.8 Wall Coverings	901.8 Wall Coverings
901.9 Interior Architectural Coatings	901.9 Interior Architectural Coatings
901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 901.9.3	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	**Chapter 11 Remodeling**
11.605.3 On-site Recycling	11.605.3 On-site Recycling
11.605.4 Recycled Construction Materials	11.605.4 Recycled Construction Materials
11.609.1 Regional Materials	11.609.1 Regional Materials
11.901.8 Wall Coverings	11.901.8 Wall Coverings
11.901.9 Interior Architectural Coatings	11.901.9 Interior Architectural Coatings
11.901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 11.901.9.3	11.901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 11.901.9.3
11.901.9.4 Mandatory Requirement	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	**Chapter 12 Remodeling of Functional Areas**
12.1(A).609.1 Regional Materials	12.1(A).609.1 Regional Materials
12.1.901.8 Interior Wall Coverings	12.1.901.8 Interior Wall Coverings
12.1.901.9 Architectural Coatings	12.1.901.9 Architectural Coatings
12.1.901.9.1 VOC Content Limits Architectural Coatings Flat Coatings or 12.1.901.9.2	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**
8. Indoor Environmental Quality (IEQ)	**Chapter 5 Material Resource Conservation and Efficiency**
8.4.2.2 Paints and Coatings	503.1 Construction Material and Waste Management Plan
8.4.2.2.1/8.4.2.2.2 Emissions Requirements & VOC Content Requirements: a and b	
8.5.2 Materials	
9. The Buildings Impact on the Atmosphere, Materials, and Resources	**Chapter 8 Indoor Environmental Quality and Comfort**
9.3.1.1 Diversion	806.3 Architectural Paints and Coatings/Table 806.3(1) or 806.3(2)
9.3.1.2 Total Waste	
9.3.1.3 Construction Waste Management Plan	
9.4.1.1.2 Salvaged Material Content	
9.4.1.2 Regional Materials	

U.S. GREEN BUILDING COUNCIL® LEED®	
v4 2018	**v3 2009**
BUILDING DESIGN (BD) AND CONSTRUCTION (C)	**NEW CONSTRUCTION AND MAJOR RENNOVATIONS**
Materials and Resources (MR)	**Materials and Resources (MR)**
MR Prerequisite: Storage and Collection of Recyclables	MR Credit 1.1 Building Reuse- Maintain Existing Walls, Floors & Roofs
MR Credit: Building Life-Cycle Impact Reduction: Option 1 or Option 2	MR Credit 1.2 Building Reuse- Maintain Interior Nonstructural Elements
MR Credit: Building Product Disclosure and Optimization- Material Ingredients:	MR Credit 2 Construction Waste Management
Option 2 International Alternative Compliance Path- Reach Optimization	MR Credit 5 Regional Materials
MR Credit: Construction and Demolition Waste Management	
Indoor Environmental Quality (EQ)	**Indoor Environmental Quality (IEQ)**
EQ Credit: Low-Emitting Materials: Option 1	IEQ Credit 4.2 Low Emitting Materials- Paints & Coatings

Table 4 continued

U.S. GREEN BUILDING COUNCIL® LEED®	
v4 2018	**v3 2009**
Innovation in Design (ID) Credit 1 Innovation in Design **HOMES DESIGN (HD) and CONSTRUCTION (C)** **Materials and Resources (MR)** MR Credit: Construction Waste Management **Indoor Environmental Quality (EQ)** EQ Credit: Low-Emitting Products **INTERIOR DESIGN (ID) and CONSTRUCTION (C)** **Materials and Resources (MR)** 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 **Indoor Environmental Quality (EQ)** EQ Credit: Low-Emitting Materials: Option 1 **Innovation in Design (ID)** Credit 1 Innovation in Design	**Innovation in Design (ID)** Credit 1 Innovation in Design
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1113	
2016	**2013**
Table of Standards 1, VOC Limits Flats (e) Test Methods (e)(1)(A) U.S. EPA Reference Test Method 24	**Table of Standards 1, VOC Limits** 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

FABRICANTE

No-Burn, Inc.
1392 High Street, Suite 211
Wadsworth, Ohio 44281
www.noburn.com

DESCRIPCIÓN

No-Burn® Plus XD es un recubrimiento intumescente de película delgada a base de agua color gris claro 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 XD 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
- Barrera de protección de contacto alternativa o no preceptiva
- Resistencia al vapor de Clase III

Informes de evaluación de cumplimiento de códigos: ER 305 & TER 1905-03.

Verificación de instalación: SPFA-148.

2. ESPECIFICACIONES

Color:	Opaco/Gris Claro/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), 55 lbs
Tambores:	55 galones (208 l), 605 lbs
Vida útil:	24 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 (M)SDS y Prácticas recomendadas para el manejo seguro y el almacenamiento del producto para obtener información adicional.

3. RENDIMIENTO DEL PRODUCTO

No-Burn® Plus XD puede ser utilizado en los *usos primarios* expresados. Plus XD se aplica en una sola capa con atomizador dentro de áticos y espacios de acceso donde se instala espuma de poliuretano pulverizado.

Siendo un componente en un conjunto de barreras ignífugas alternativas, Plus XD protege pasivamente la superficie con espuma pulverizada contra la ignición. Aplicable para espumas de poliuretano pulverizadas de célula abierta y célula cerrada, Plus XD proporciona la protección contra incendios y la resistencia a vapores de Clase III como exige el código de construcción residencial, comercial ligero 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 XD puede ser especificado en el cumplimiento de los siguientes:

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

Tabla 1
Sustratos

Material[1]	Grosor de Película	Índice de propagación
BASF Enertite® G Célula Abierta SPF	6 húmedo	267 sq. ft./gal.
BASF Enertite® NM Célula Abierta SPF	6 húmedo	267 sq. ft./gal.
BASF Spraytite® 158 Célula Cerrada SPF	6 húmedo	267 sq. ft./gal.
BASF Spraytite® 81205 Célula Cerrada SPF	6 húmedo	267 sq. ft./gal.
BASF Spraytite® SP Célula Cerrada SPF	6 húmedo	267 sq. ft./gal.
BASF Spraytite® Comfort Célula Cerrada SPF	6 húmedo	267 sq. ft./gal.
BASF Spraytite® Comfort Plus Célula Cerrada SPF	6 húmedo	267 sq. ft./gal.
BASF Spraytite® Comfort XL Célula Cerrada SPF	6 húmedo	267 sq. ft./gal.
BASF Spraytite® LWP-L Célula Cerrada SPF	6 húmedo	267 sq. ft./gal.
BASF Enertite® US Célula Abierta SPF	12 húmedo	134 sq. ft./gal.
BASF Spraytite® 178 Célula Cerrada SPF	12 húmedo	134 sq. ft./gal.
BASF Spraytite® 81206 Célula Cerrada SPF	12 húmedo	134 sq. ft./gal.
BASF Walltite® US Célula Cerrada SPF	12 húmedo	134 sq. ft./gal.
BASF Walltite® US-N Célula Cerrada SPF	12 húmedo	134 sq. ft./gal.
BASF Walltite® HP+ Célula Cerrada SPF	12 húmedo	134 sq. ft./gal.
BASF Walltite® LWP Célula Cerrada SPF	12 húmedo	134 sq. ft./gal.
BASF Walltite® HP+S Célula Cerrada SPF	12 húmedo	134 sq. ft./gal.
BASF Walltite® 200 Célula Cerrada SPF	12 húmedo	134 sq. ft./gal.
Carlisle SealTite Pro Celda Abierta SPF	6 húmedo	267 sq. ft./gal.
Carlisle Foamsulate 50 HY Celda Abierta SPF	6 húmedo	267 sq. ft./gal.
Carlisle SealTite Pro High Yield Celda Abierta SPF	6 húmedo	267 sq. ft./gal.
Carlisle Foamsulate 50 Celda Abierta SPF	6 húmedo	267 sq. ft./gal.
Carlisle SealTite Pro No Mix Celda Abierta SPF	6 húmedo	267 sq. ft./gal.
Convenience Touch 'n Seal® 2.0 pcf de celda cerrada SPF	8 húmedo	200 sq. ft./gal.
Demilec SEALECTION® 500 de celda abierta SPF	6 húmedo	267 sq. ft./gal.
Demilec SEALECTION Agribalance® de celda abierta SPF	10 húmedo	160 sq. ft./gal.
Paneles R-Sheathing de Huber ZIP System® (R-3 y R-6)	10 húmedo	160 sq. ft./gal.
ICP Handi-Foam® E-84 Class 1(A) de celda cerrada SPF	10 húmedo	160 sq. ft./gal.
Icynene Classic de celda abierta SPF	6 húmedo	267 sq. ft./gal.
Icynene Classic Ultra de celda abierta SPF	6 húmedo	267 sq. ft./gal.
Icynene Classic Ultra Select de celda abierta SPF	6 húmedo	267 sq. ft./gal.
Icynene Classic Plus de celda abierta SPF	6 húmedo	267 sq. ft./gal.
Icynene Prime Gold de celda abierta SPF	6 húmedo	267 sq. ft./gal.
Icynene MD-C-200- de celda cerrada SPF	16 húmedo	100 sq. ft./gal
Icynene ProSeal Eco (MD-R-200) de celda cerrada SPF	5 húmedo	320 sq. ft./gal.
Lapolla FL 450 de celda abierta SPF	6 húmedo	267 sq. ft./gal.
Lapolla FL 750 de celda abierta SPF	6 húmedo	267 sq. ft./gal.
Tiger Foam® E-84 Clase 1 SPF	10 húmedo	160 sq. ft./gal.

[1] Conjuntos alternativos de barrera de ignición (IB): ER 305 Tabla 3 & TER 1905-03 Tabla 2

5. 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 continuaciónpresentamos ejemplos de *Equipos* aplicables. Las recomendaciones de los *Equipos* atomizadores de aplicador sin aire (airless) contienen enlaces a las especificaciones del fabricante para referencia. 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 mangueras para atomizadores sin aire (airless) tengan un diámetro

Tabla 2 *Equipo*		
Fabricante	**Modelo**	
Graco®	Ultra Max II 795	Ultra Max II 1595
	Ultra Max II 1095	TexSpray Mark V
Titan®	Impact™ 840	PowrTwin™ 6900 Plus
	Impact™ 1140	PowrTwin™ 8900 Plus
Recomienda usar boquillas con orificio de tamaño 0.025 a 0.031 y manguerapara atomizadores sin aire (airless) tengan un diámetro interior de ¼" o superior.		

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*.

6. 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 atomizacor, 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.

7. MEZCLA, PINTADO Y SOBRETUBOS

Plus XD debe estar bien mezclada antes de su uso de conformidad con las recomendaciones del fabricante. Mezclar con un mezclador helicoidal Squirrel™ eléctrico para 5 galones o un aparato similar de 500 a 1500 RPM durante un tiempo de mezclado mínimo de 5 minutos por cubeta. NO es suficiente agitar el No-Burn® Plus XD con un agitador de pinturas. No se recomienda filtrar o colar el Plus XD. Utilizar el producto como es: **NO DILUIR**. Si se mezcla No-Burn® Plus XD más de 24 horas antes de usarlo, mezclarlo nuevamente de conformidad con las instrucciones del fabricante.

Nunca permitir que Plus XD se congele a 32°F (0°C), almacenar entre 40 °F y 90 °F (4.4 °C y 32.2 °C) y mantener fuera de la luz directa del sol; si no puede comprobar que se han mantenido estas condiciones, el producto puede eliminarse de conformidad con la (M)SDS del fabricante. Si se desea agregar color al Plus XD, puede hacerlo a una relación máxima de 2 oz. de tintura por galón. Es recomendable 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 acerca del teñido.

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 XD y un abrigo.

8. APLICACIÓN

Al aplicar No-Burn® Plus XD, el revestimiento debe aplicarse al *Sustrato(s),* según corresponda, de acuerdo con el Informe de evaluación (ER) 305, Informe de evaluación (TER) 1905-03 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. El *Sustrato(s)* no debe tener, ni haber sido expuesto a, tratamientos, sustancias químicas, recubrimientos, etc. antes de la aplicación de Plus XD.

La observación visual de un recubrimiento intumescente es de un distintivo color gris claro 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. 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 XD 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 XD completamente entre capas. Para reciclar las cubetas, visite http://www.wbdg.org/tools/cwm.php.

No-Burn, Inc.
INFORMACIÓN DE VENTAS Y PEDIDOS
1-800-989-8577
INFORMACIÓN TÉCNICA
1-800-989-8577
www.noburn.com