



MANUFACTURER

No-Burn, Inc.
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DESCRIPTION

No-Burn Plus *Spray Seal™* is a single-component water-based intumescent coating and air/water-resistive barrier for use over OSB, plywood, I-joists and lumber materials, and for use as a component within an exterior wall system. Plus *Spray Seal™* provides fire protection and resistance to air leakage and water penetration, while allowing vapor transmission through the substrate. Additionally, Plus *Spray Seal™* provides durability and UV protection for up to 6 months.

1. PRIMARY USES

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

- Surface Burning Characteristics
- Interior Finish Classification Class I or Class A:
 - Flame Spread (FS) 0-5
 - Smoke Development (SD) 0-35
- Alternative or Non-prescriptive Thermal Barrier Protection
- Fire Resistance
- Air & Water-Resistive Barrier
- Vapor Semi-permeable
- UV & Weather Durability

Code Compliance Evaluation Reports: TER 2010-01.

Installation Verification: TER 2010-01.

2. SPECIFICATIONS

Color: Light Gray/Tinted
[Intumescent Color Wheel & Tinting](#)

Light Gray	Tinted
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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: 38%
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 *Spray Seal™* provides the high-performance, code-compliant fire protection and air/water-resistive barrier needed in new and existing residential and commercial construction, and it may be used in any of the *Primary Uses* expressed.

4. APPLICABLE STANDARDS

No-Burn® Plus *Spray Seal™* may be specified in compliance of the following:

AC14	CAN/ULC-S102
AC257	CARB
AC377	CDPH (CA Spec 01350)
ANSI/ASHRAE/ICC/USGBC Standard 189.1	CHPS
ANSI/NSF 51	CSFM: 2280-2014:0100
ASTM A653	EC017
ASTM D2915	GSA PBS-P100
ASTM D5055	ICC/ASHRAE 700 NGBS
ASTM E84	IgCC
ASTM E84, 30 min	LEED v3 2009
ASTM E96	LEED v4
ASTM E119	NFPA 255
ASTM E1623	NFPA 286
ASTM E2178	SCAQMD Rule 1113
ASTM E2768	UL 723
ASTM G85	UL 1715
ASTM G154	

Material	Use ¹	Film Thickness	Spread Rate	Max Moisture Content
Douglas Fir	AB+Class A	15 wet	107 sq. ft./gal.	19%
Gypsum Board ½" Type X	AB+FR	15 wet	107 sq. ft./gal.	N/A
I-joist and subfloor	AB+FR	15 wet	107 sq. ft./gal.	16%
I-joist only	AB+FR	23 wet	70 sq. ft./gal.	16%
Laminated Strand Lumber (LSL)	AB+Class A	15 wet	107 sq. ft./gal.	16%
Laminated Veneer Lumber (LVL)	AB+Class A	15 wet	107 sq. ft./gal.	16%
Oriented Strand Board (OSB)/Plywood	AB+Class A	15 wet	107 sq. ft./gal.	16%
Red Oak	AB+Class A	15 wet	107 sq. ft./gal.	19%
Southern Yellow Pine	AB+Class A	15 wet	107 sq. ft./gal.	19%
Concrete Block	AB	15 wet	107 sq. ft./gal.	N/A

1. Air and Water Barrier; Evaluation Report: TER 2010-01.
2. Class A: Interior Finish or Extended FRTw Equivalency; Evaluation Report: TER 2010-01.
3. Fire Resistance (FR); Evaluation Report: TER 2010-01.

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.

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 - .027 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-.027. 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 *Spray Seal™* 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 *Spray Seal™* 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 until thoroughly mixed. Shaking No-Burn® Plus *Spray Seal™* with a paint shaker is NOT sufficient. Filtering or straining Plus *Spray Seal™* is not recommended. Use the product as is: **DO NOT DILUTE**. If No-Burn® Plus *Spray Seal™* is mixed more than 24 hours prior to use, mix it again according to manufacturer's instructions.

Plus *Spray Seal™* 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 *Spray Seal™* 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 *Spray Seal™* and an overcoat have been applied.

For exterior applications, and with exposure to exterior elements exceeding 6 months, Plus *Spray Seal™* must be overcoated with a high quality exterior water-based, UV resistant paint. Exterior overcoats may be recommended by the manufacturer.

8. APPLICATION

When No-Burn® Plus *Spray Seal™* is applied in accordance with Technical Evaluation Report (TER) 2010-01, the applicator shall be qualified by No-Burn®, Inc. Certified installation ensures quality control and product best

practices. A No-Burn® Product Application Certificate shall be completed by the certified applicator and submitted to the code official and No-Burn, Inc. Plus *Spray Seal™* shall be applied to *Substrate(s)* in accordance with manufacturer's technical data sheet/instructions. Copies of relevant technical data and/or documents shall be available at the jobsite.

When No-Burn® Plus *Spray Seal™* is installed as an air & water-resistive barrier over exterior sheathing panels and under exterior cladding material, the exterior sheathing panels are to be installed and fastened per manufacturer's recommendation. Ensure the sheathing panels are flat, the gaps between sheathing are within specification, and that fasteners have not been overdriven. Panel surface must be dry, clean and free from loose debris, dust, dirt, grease, oil prior to the application of No-Burn® Plus *Spray Seal™*, and the application shall not proceed until unsatisfactory conditions have been corrected.

The applicator shall verify the moisture content of the *Substrate(s)* with a moisture meter, as applicable, in accordance with manufacturer recommendations. 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.

Where panel joints are not attached to framing or blocking, the joint must be taped using min. 4" MFM Building Products WindowWrap® PowerBond®, WindowWrap® Flex PowerBond®, or equivalent. Center the tape over the seam to provide adequate coverage. At T-joints, tape pieces should overlap by at least 1". Tape over any areas of the panel that are damaged during construction. Apply pressure along the entire surface for a good bond using a flashing tape roller. Tape must have a heat and cold resistance ranging from -40°F to 220°F

For window and door openings, and other penetrations through the exterior sheathing, follow manufacturer specifications / best construction practices for proper flashing to prevent air / water intrusion including, but not limited to, flashing tape, caulk, and/or rigid flashing.

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 or before the addition of a top coat, allow No-Burn® Plus *Spray Seal™* to dry completely between coats. Overcoats shall be in accordance with Section 7 of this document.

Plus *Spray Seal™* can endure 6 months of UV exposure before cladding installation and can be used behind open-joint rain screen cladding. When exposure to exterior elements exceeds 6 months, Plus *Spray Seal™* must be overcoated with a high-quality exterior water-based, UV resistant paint. Exterior overcoats may be recommended by the manufacturer. When overcoated in exterior applications, special consideration should be paid to the overcoat's instructions and recommendations. Prior to the reapplication of an overcoat, No-Burn® Plus *Spray Seal™* may need to be reapplied.

No-Burn® Plus *Spray Seal™* coated *Substrate(s)*, other than during normal construction delays, may need protection from prolonged exposure to adverse weather conditions. Use plastic sheets or tarps to protect from extended weather exposure while in transit, storage or during construction. Follow manufacturer instructions and APA's Engineered



Plus Spray Seal™
 Intumescent Coating
 Engineered Wood & Structural Lumber



Wood Construction Guide Form E30 for storage and handling recommendations.

Store No-Burn® Plus Spray Seal™ coated *Substrate(s)* in clean, dry areas off the ground. It is recommended to store No-Burn® Plus Spray Seal™ coated *Substrate(s)* indoors; if stored outside, cover with plastic sheets or tarps, and keep cover open and away from the sides and bottom of *Substrate(s)* to allow for air circulation. No-Burn® Plus Spray Seal™ coated *Substrate(s)* being transported on open truck beds or railcars should be covered with tarps to avoid extended weather exposure.

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.

No-Burn, Inc.
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TECHNICAL INFORMATION
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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. On occasion, No-Burn® Plus Spray Seal™ Spray Seal™ 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 Spray Seal™ Spray Seal™ 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.
POLICY & PROCEDURES All sales of this product by No-Burn, Inc. are subjected to our Policy & Procedures available at <http://noburn.com/polices-procedures>
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