ThB *Spray Seal™*

Intumescent Coating

Spray Polyurethane Foam Insulation

MANUFACTURER

No-Burn, Inc.
1255 High Street, Suite 200
Wadsworth, Ohio 44281
www.noburn.com

DESCRIPTION

No-Burn® ThB *Spray Seal™* is an intumescent coating for use over open and closed cell spray polyurethane foam as a Class II vapor retarder, thermal barrier, and ignition barrier in one application. Durability features also include exposure to UV and weather for up to 6 months. Compliant with the International Building Code and International Residential Code, ThB *Spray Seal™* approvals are listed in Technical Evaluation Report TER 1905-03.

1. PRIMARY USES

For use in new and existing buildings, complying with the IBC®, IMC®, IRC®, IEBC® and other applicable codes or standards, ThB *Spray Seal™* 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 II Vapor Retardancy

Code Compliance Evaluation Reports: TER 1905-03.
Installation Verification: SPFA-148.

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), 58.5 lbs.
Drums:	55 Gallon Drum (208 L), net 45 Gallons (170 L) 586.5 lbs.
Shelf Life:	12 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 and Best Practices for Safe Handling & Storage for more information.

3. PRODUCT PERFORMANCE

No-Burn® ThB *Spray Seal™* may be used for the *Primary Uses* expressed. As a Class II Vapor Retarder, and as a component in an alternative ignition barrier assembly or thermal barrier assembly, ThB *Spray Seal™* is a vapor retarder and intumescent fire protective coating for interior spaces where spray polyurethane foam is installed. Complies with USDA requirements for incidental food contact and ANSI/NSF 51 Food Zone Materials.

4. APPLICABLE STANDARDS

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

AC377
AC456
ANSI/ASHRAE/ICC/USGBC Standard 189.1
ANSI/NSF 51
ASTM E84
ASTM E96
CARB
CDPH (CA Spec 01350)
CHPS
EC017
GSA PBS-P100
ICC/ASHRAE 700 NGBS
IgCC
LEED v3 2009 & v4
NFPA 286
SCAQMD Rule 1113
UL 1715

Table 1

Substrate Material	VR[1], TB[2] or IB[3]	Film Thickness	Spread Rate
Accufoam CC Closed Cell Foam	VR+TB	16 wet	100 sq. ft./gal.
Accufoam CC-HFO Closed Cell Foam	VR+TB	16 wet	100 sq. ft./gal.
AMBIT AMBI-SEAL 5.0 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
AMBIT Ambi-Tite 201 (245fa) Closed SPF	VR+TB	16 wet	100 sq. ft./gal.
AMBIT Ambi-Tite 204 HFO Closed SPF	VR+TB	16 wet	100 sq. ft./gal.
Alpha Polymers AP 100 (OC) Open Cell Foam	VR+TB	16 wet	100 sq. ft./gal.
Alpha Polymers AP 200 245fa (CC) Open Cell Form	VR+TB	16 wet	100 sq. ft./gal.
AMD Diamondback Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Enertite® G Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Enertite® Max Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Spraytite® SP Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Spraytite® 158 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Spraytite® 178 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Spraytite® 81206 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Walltite® US Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Spraytite® Comfort Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Spraytite® Comfort XL Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Spraytite® LWP-L Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Spraytite® LWP Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Walltite® MAX Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Walltite® XL Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
BASF Walltite® Plus Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle Foamsulate 50 HY Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro XRT Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle Foamsulate 50 ES Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro High Yield Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle Foamsulate 50 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro No Mix Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle Foamsulate Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle Foamsulate HFO 2.0 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro One Zero Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Carlisle Foamsulate HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Central Urethane X-Press Seal 170 Closed Cell Foam	VR+TB	16 wet	100 sq. ft./gal.
Central Urethane X-Press Seal 200 Closed Cell Foam	VR+TB	16 wet	100 sq. ft./gal.
Creative Polymer Solutions Accufoam CC Closed Cell Foam	VR+TB	16 wet	100 sq. ft./gal.
Creative Polymer Solutions Accufoam 2.0 CC-HFO Closed Cell Foam	VR+TB	16 wet	100 sq. ft./gal.
Dynamo ECO2000 HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Dynamo ECO2000 HFO 2x Lift Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Elastochem Insulthane 200 Evolution Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Elastochem Insulthane Extreme HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Elastochem Insulthane Extreme HL Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Energy One America EOA 500 Open Cell Spray Foam	VR+TB	16 wet	100 sq. ft./gal.
Energy One America EOA 2000 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Everest Evercell 2.0 (245fa) Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Everest Opticell 2.0 (HFO) Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Firestable Stablebase Max R HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Foam Supplies Genfoam Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Foam Supplies genX Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Foam Supplies ecostar Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Gaco EZSpray F4500 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.

[1] Class II Vapor Retarder (VR); Evaluation Report: TER 1905-03, Table 3.
[2] Alternative Thermal Barrier (TB) Assemblies; Evaluation Report: TER 1905-03 Table 1.
[3] Alternative Ignition Barrier (IB) Assemblies; Evaluation Report: TER 1905-03 Table 2.

Table 1 Continued

Substrate			
Material	**VR[1], TB[2] or IB[3]**	**Film Thickness**	**Spread Rate**
Gaco F183M Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Gaco OnePass F1850 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Gaco OnePass 1860 HFO SPF	VR+TB	16 wet	100 sq. ft./gal.
Gaco OnePass Low GWP F1880 SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 050 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 050 Max Pro Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 050 Max Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 050X Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 170 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 202 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 202 High-Lift Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 202 Max Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 205 HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
General Coatings Ultra-Thane 205 HFO High-Lift CC SPF	VR+TB	16 wet	100 sq. ft./gal.
Genyk Elite 2.0 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Sealection® 500 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Sealection® NM Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Agribalance® Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) APX 1.2 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Heatlok HFO High Lift Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Heatlok HFO Pro Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Heatlok XT-s Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Heatlok XT-w Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Heatlok ECO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Heatlok HFO EZ Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) Classic Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) Classic Ultra Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) Classic Ultra Select Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) Classic Plus Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) Prime Gold Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) No Mix Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) ProSeal Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) ProSeal LE Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) ProSeal Eco Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) ProSeal HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) ProSeal HFO CW Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) MD-C-200 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Lapolla) Foam-Lok FL 450 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Lapolla) Foam-Lok FL 500 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Lapolla) Foam-Lok FL 750 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Lapolla) Foam-Lok FL 2000-3G Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Lapolla) Foam-Lok FL 2000-4G Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Huntsman (Lapolla) Foam-Lok FL 2000 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
ICP Handi-Foam HVLP LD Open Cell Spray Foam	VR+TB	16 wet	100 sq. ft./gal.
ICP Handi-Foam HVLP MD Closed Cell Spray Foam	VR+TB	16 wet	100 sq. ft./gal.
Johns Manville JM Corbond Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Johns Manville JM Corbond HY Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Johns Manville JM Corbond OCX Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Johns Manville JM Corbond III Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Johns Manville JM Corbond IV Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Johns Manville JM GEN IV Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Johns Manville JM Corbond MCS Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Natural Polymers Natural-Therm 0.4 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Natural Polymers Natural-Therm 0.5 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Natural Polymers Ultra-Pure Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Natural Polymers Natural-Therm Zero Closed Cell Spray Foam	VR+TB	16 wet	100 sq. ft./gal.
Natural Polymers Natural-Therm 2.0 Closed Cell Spray Foam	VR+TB	16 wet	100 sq. ft./gal.
Natural Polymers Natural-Therm 2.0 HFO Closed Cell Spray Foam	VR+TB	16 wet	100 sq. ft./gal.
Natural Polymers Ultra-Pure Closed Cell Spray Foam	VR+TB	16 wet	100 sq. ft./gal.
NCFI InsulStar Light 12-008 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
NCFI InsulStar Light 12-075 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
NCFI InsulStar 11-033 1.7 HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
NCFI InsulStar 11-036 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
NCFI InsulBloc 11-037 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
NSF Polymers CC OG HFC Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.

Table 1 Continued

Substrate			
Material	**VR[1], TB[2] or IB[3]**	**Film Thickness**	**Spread Rate**
NSF Polymers R-Max Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Nu-Wool Nu-Seal 0.5 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Nu-Wool Nu-Seal 2.0 HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Nu-Wool Nu-Seal Plus Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
PSI Staycell 505 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
PSI Staycell 508 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
PSI Staycell 504-2 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Quadrant Performance EnviroSeal HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SES EasySeal 0.5 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SWD Quik-Shield 108YM Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SES SucraSeal 0.5 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SES Nexseal 2.0 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SES Nexseal 2.0 LE Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SWD Quik-Shield 108 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SWD Quik-Shield 112XC Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SWD Quik-Shield 118 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SWD Quik-Shield 133 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SWD Quik-Shield 144 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
SWD Quik-Shield YETI Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
ThermoSeal 5G Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
ThermoSeal TS HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
ThermoSeal OCX Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
ThermoSeal CCX Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
ThermoSeal 2000/2000W Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 500 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 500 Classic Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 500 Max Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 500 Max Pro Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 500 OCX Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 1.7 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 2.0 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 2.0 HL Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 2.0 MAX Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 2.0 HFO Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
UPC 2.0 HFO High Lift Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Victory Polymers VPC-50 Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Victory Polymers VPC-CC SuperLift Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Victory Polymers VPC-CC SuperYield Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Xcelus XLS 200 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
Xcelus XLS 2000 Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
XtremeSeal 0.4 LX Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
XtremeSeal 0.5 LX Open Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
XtremeSeal 2.0 LE Closed Cell SPF	VR+TB	16 wet	100 sq. ft./gal.
AMBIT AMBI-SEAL 5.0 Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Alpha Polymers AP 100 (OC) Open Cell Foam	VR+IB	16 wet	100 sq. ft./gal.
BASF Enertite® G Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Enertite® Max Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Spraytite® 158 Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Spraytite® SP Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Spraytite® Comfort Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Spraytite® Comfort XL Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Spraytite® LWP-L Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Spraytite® 178 Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Spraytite® 81206 Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Walltite® US Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Walltite® LWP Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Walltite® MAX Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Walltite® XL Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
BASF Walltite® Plus Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Carlisle Foamsulate 50 HY Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro XRT Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.

[1] Class II Vapor Retarder (VR); Evaluation Report: TER 1905-03, Table 3.
[2] Alternative Thermal Barrier (TB) Assemblies; Evaluation Report: TER 1905-03 Table 1.
[3] Alternative Ignition Barrier (IB) Assemblies; Evaluation Report: TER 1905-03 Table 2.

Table 1 Continued

Substrate

Material	VR[1], TB[2] or IB[3]	Film Thickness	Spread Rate
Carlisle Foamsulate 50 ES Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro High Yield Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Carlisle Foamsulate 50 Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Carlisle SealTite Pro No Mix Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Creative Polymer Accufoam® Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Creative Polymer Accufoam® CC Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Creative Polymer Accufoam® 2.0 CC-HFO Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
DAP Touch N' Seal 2.2 PCF Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Franklin Titebond Weathermaster Superfoam Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Gaco EZSpray F4500 Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Holcim SES EasySeal ULD Spray Foam Insulation	VR+IB	16 wet	100 sq. ft./gal.
Huber ZIP Systems R-Sheating Panel (R-3 & R-6)	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Sealection® 500 Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Sealection® NM Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Demilec) Agribalance® Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) Classic Ultra Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) Classic Ultra Select Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) Prime Gold Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) MD-C-200 Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Icynene) ProSeal Eco (MD-R-200) Closed Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Lapolla) FL 450 Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
Huntsman (Lapolla) FL 750 Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
ICP Handi-Foam HVLP LD Open Cell Spay Foam	VR+IB	16 wet	100 sq. ft./gal.
ICP Handi-Foam® E-84 Class 1(A) Closed Cell Spray Foam	VR+IB	16 wet	100 sq. ft./gal.
John Manville JM Corbond HY Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
NSF Polymers OC-OG Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
NSF Polymers OC Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
SES EasySeal ULD Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
SWD Quik-Shield 106 Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.
ThermoSeal TS 360 Open Cell Spray Foam	VR+IB	16 wet	100 sq. ft./gal.
ThermoSeal TS 500 Open Cell Spray Foam	VR+IB	16 wet	100 sq. ft./gal.
ThermoSeal TS 800 Open Cell Spray Foam	VR+IB	16 wet	100 sq. ft./gal.
ThermoSeal OCX Open Cell Spray Foam	VR+IB	16 wet	100 sq. ft./gal.
Tiger Foam® E-84 Fire Rated Class 1 SPF	VR+IB	16 wet	100 sq. ft./gal.
Victory Polymers VPC-50 Open Cell SPF	VR+IB	16 wet	100 sq. ft./gal.

[1] Class II Vapor Retarder (VR); Evaluation Report: TER 1905-03, Table 3.
[2] Alternative Thermal Barrier (TB) Assemblies; Evaluation Report: TER 1905-03 Table 1.
[3] Alternative Ignition Barrier (IB) Assemblies; Evaluation Report: 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 .023-.029 and airless sprayer hoses inside diameter of 3/8" for up to 50' and ½" for hose runs longer than 50'. A working section of ¼" can be used for the 10-15' right before the spray gun.

Airless paint sprayer must be capable of producing a minimum of 3,300 psi. Recommended tip sizes are .023-.029 and will vary depending on installer experience while maintaining desired wet film thickness. Variations in spray pattern width may be required depending on the surface area and the Substrate(s) to which ThB *Spray Seal™* is being applied, as well as installer experience, while maintaining minimum required wet film thickness. Removal of filter from the spray gun and pressure side of the sprayer to allow for the passage of solid content is required. Do not remove the rock guard (screen) from the bottom of the intake tube. Airless sprayer hoses are recommended to have a minimum inside diameter of 3/8" for up to 50' and ½" for hose runs longer than 50', however a working section of ¼" can be used for the 10-15' right before the spray gun. Water can be used to flush the system after installation but should not be left in the system. After flushing, a corrosion resistant, lubricating fluid recommended by the manufacturer should be run through the system prior to storage.

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, & OVERCOATS

ThB *Spray Seal™* must be thoroughly mixed before use in accordance with the manufacturer's recommendations. Mix with a 5 gallon paddle style wand at or between 800-1200 RPM until thoroughly mixed. Shaking No-Burn® ThB *Spray Seal™* with a paint shaker is NOT sufficient. Filtering or straining ThB *Spray Seal™* is not recommended. If No-Burn® ThB *Spray Seal™* is mixed more than 24 hours prior to use, mix it again according to manufacturer's instructions.

Thinning is usually not needed; if ThB *Spray Seal™* 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 ThB *Spray Seal™* again according to manufacturer's instructions.

After mixing, 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 ThB *Spray Seal™* again according to manufacturer's instructions. Use Caution not to add too much water or the product may run and drip during application.

ThB *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, ThB *Spray Seal™* may be tinted at a maximum rate of 2 oz. of tint per gallon with commercially available tint that is safe to be used with water-based paints. It is recommended that No-Burn® Black Tint, manufactured by No-Burn, Inc., be used for tinting. No-Burn® Black Tint can be added at a rate of 12 oz. per 5-gallon pail. Contact the manufacturer for additional tinting information.

When a specified or black color is desired, an overcoat may be used and shall be water-based with a pH of 7-8 (i.e., Sherwin Williams A-100 or Behr Premium Plus). 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® ThB *Spray Seal™* and an overcoat have been applied. No-Burn® Inc. makes no guarantees of color matching when using a tint from a third-party manufacturer.

8. APPLICATION

When applying No-Burn® ThB *Spray Seal™*, the coating shall be applied to *Substrate(s),* as applicable, in accordance with 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 Substrate's 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 and be able to be top coated according to SPF manufacturer requirements prior to the application of ThB *Spray Seal™*, minimum 1 hour. The Substrate(s) shall not have, nor have been exposed to, treatments, chemicals, coatings, etc. prior to the application of ThB *Spray Seal™*. Visual observation of the intumescent coating is naturally and distinctively white or gray in color unless tinted. 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 0.55-0.70 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, ThB *Spray Seal™* 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® ThB *Spray Seal™* to dry completely between coats.

It's always best to follow SPF Manufacturer guidelines first and foremost when it comes to installing ThB *Spray Seal™*, following the spray installation instructions closely. For high heat, humidity or extreme cold, ThB *Spray Seal™* guidelines are as follows.

A. ThB *Spray Seal™* can be installed to newly installed SPF based upon the top coat times of the SPF manufacturer. Please refer to the TDS of the SPF that Plus ThB will be applied to. Follow the installation instructions of the SPF manufacturer closely.
B. Ideal installation temperatures are 65 degrees Fahrenheit or above, and less than 65% relative humidity.
C. Ambient air and substrate temperature MUST be above 40 degrees Fahrenheit to apply ThB *Spray Seal™* and cannot drop below 40 degrees Fahrenheit until after ThB *Spray Seal™* has dried to the touch.
D. For at least 72 hours after installation of ThB *Spray Seal™*, consistent temperatures must be maintained within the installation parameters (at least 40 degrees Fahrenheit, preferably 65 degrees Fahrenheit or above) and no more than a 65% relative humidity with readings taken daily. Any conditions outside of these guidelines must be approved by No-Burn®, Inc. technical service.
E. The space where ThB *Spray Seal™* is being installed must be well ventilated, either by natural openings or with the use of mechanical ventilation equipment, both during installation and for up to 72 hours once installation is complete, to allow for the curing process to complete. Humidity of the ambient air and amount of airflow through the space will affect cure times (i.e. more humid with less air movement will take more time to cure).
F. Once cured, ThB *Spray Seal™* installed in continuous high humidity environments will require a top coat such as Behr Premium Plus or Sherwin Williams A-100 exterior paint (i.e.: 70% humidity and higher.). Parking structures, both above and below grade, will require this protection. If the installer has any questions regarding the humidity levels of the environment once ThB *Spray Seal™* is installed, it is recommended that they discuss with a No-Burn®, Inc. service technician.

Empty 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.

Table 3

Code Compliance

INTERNATIONAL BUILDING CODE® (IBC®)

2021	2018
Chapter 8 Interior Finish	**Chapter 8 Interior Finish**
803.1.1 Interior Wall and Ceiling Finish Materials NFPA 286	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	803.1.2 Interior Wall and Ceiling Finish Materials ASTM E84 or UL 723
803.4 Foam Plastics	803.4 Foam Plastics
Chapter 26 Plastic	**Chapter 26 Plastic**
2603.4/2603.9 Thermal Barrier Special Approval	2603.4/2603.9 Thermal Barrier Special Approval
2603.4.1.6 Attics and Crawl Spaces	2603.4.1.6 Attics and Crawl Spaces
2015	**2012**
Chapter 8 Interior Finish	**Chapter 8 Interior Finish**
803.1.1 Interior Wall and Ceiling Finish Material	803.1.1 Interior Wall and Ceiling Finish Material
803.1.2 Corner Test for Interior Wall or Ceiling Finish	803.1.2 Corner Test for Interior Wall or Ceiling Finish
803.4 Foam Plastics	803.4 Foam Plastics
Chapter 26 Plastic	**Chapter 26 Plastic**
2603.4/2603.9 Thermal Barrier Special Approval	2603.4/2603.10 Thermal Barrier Special Approval
2603.4.1.6 Attics and Crawl Spaces	2603.4.1.6 Attics and Crawl Spaces

INTERNATIONAL MECHANICAL CODE® (IMC®)

2021	2018
Chapter 6 Duct Systems	**Chapter 6 Duct Systems**
602.2 Plenums Construction FSI/SDI	602.2 Plenums Construction FSI/SDI
2015	**2012**
Chapter 6 Duct Systems	**Chapter 6 Duct Systems**
602.2 Plenums Construction FSI/SDI	602.2 Plenums Construction FSI/SDI

INTERNATIONAL RESIDENTIAL CODE® (IRC®)

2021	2018
Chapter 3 Building and Planning	**Chapter 3 Building and Planning**
R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes	R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes
R316.4/R316.6 Thermal Barrier Specific Approval	R316.4/R316.6 Thermal Barrier Specific Approval
R316.5.3 (AC377 Appx X) Foam Plastic in Attics	R316.5.3 (AC377 Appx X) Foam Plastic in Attics
R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces	R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces
Chapter 7 Wall Covering	**Chapter 7 Wall Covering**
R702.7 Class II Vapor Retarder	R702.7 Class II Vapor Retarder
Chapter 8 Roof-Ceiling Construction	**Chapter 8 Roof-Ceiling Construction**
R806.5 (4) Class II vapor retarder	R806.5 (4) Class II vapor retarder
2015	**2012**
Chapter 3 Building and Planning	**Chapter 3 Building and Planning**
R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes	R302.9 Flame Spread and Smoke Developed Index for Wall and Ceiling Finishes
R316.4/R316.6 Thermal Barrier Specific Approval	R316.4/R316.6 Thermal Barrier Specific Approval
R316.5.3 (AC377 Appx X) Foam Plastic in Attics	R316.5.3 (AC377 Appx X) Foam Plastic in Attics
R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces	R316.5.4 (AC377 Appx X) Foam Plastic in Crawl Spaces
Chapter 7 Wall Covering	**Chapter 7 Wall Covering**
R702.7 Class II Vapor Retarder	R702.7 Class II Vapor Retarder
Chapter 8 Roof-Ceiling Construction	**Chapter 8 Roof-Ceiling Construction**
R806.5 (4) Class II Vapor Retarder	R806.5 (4) Class II vapor retarder

NATIONAL FIRE PROTECTION ASSOCIATION® (NFPA®) 101

2018	2015	2012
Chapter 10 Interior Finish	**Chapter 10 Interior Finish**	**Chapter 10 Interior Finish**
10.2.3 Interior Wall/Ceiling Finish Testing & Classification	10.2.3 Interior Wall/Ceiling Finish Testing & Classification	10.2.3 Interior Wall/Ceiling Finish Testing & Classification
10.2.3.4 Required to be Tested ASTM E84 or UL 723	10.2.3.4 Required to be Tested ASTM E84 or UL 723	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 Cellular or Foamed Plastic (SIPs)	10.2.4.3 Cellular or Foamed Plastic (SIPs)
10.2.4.3.3 Cellular or Foamed Plastic Testing (SIPs)	10.2.4.3.1 Cellular or Foamed Plastic Testing (SIPs)	10.2.4.3.1 Cellular or Foamed Plastic Testing (SIPs)
10.2.4.3.4 Cellular or Foamed Plastic Trim (SIPs)	10.2.4.3.2 Cellular or Foamed Plastic Trim (SIPs)	10.2.4.3.2 Cellular or Foamed Plastic Trim (SIPs)
10.2.6.1 Fire Retardant Coatings FSI/SD	10.2.6.1 Fire Retardant Coatings FSI/SD	10.2.6.1 Fire Retardant Coatings FSI/SD
Chapter 33 Existing Residential Board/Care Occupancies	**Chapter 33 Existing Residential Board/Care Occupancies**	**Chapter 33 Existing Residential Board/Care Occupancies**
33.2.3.5.7.2(4)/1.4 Attics	33.2.3.5.7.2(4)/1.4 Attics	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. Indoor Environmental Quality (IEQ)**
8.4.2.2 Paints and Coatings	8.4.2.2 Paints and Coatings
8.4.2.2.1 Emissions Requirements	8.4.2.2.1 Emissions Requirements
8.4.2.2.2 VOC Content Requirements: a and b	8.4.2.2.2 VOC Content Requirements
8.5.2 Materials	8.5.2 Materials
9. The Buildings Impact on the Atmosphere, Materials, and Resources	**9. The Building's Impact on the Atmosphere, Materials, and Resources**
9.3.1.1 Diversion	9.3.1.1 Diversion
9.3.1.2 Total Waste	9.3.1.2 Total Waste
9.3.1.3 Construction Waste Management Plan	9.3.1.3 Construction Waste Management Plan
CALIFORNIA AIR RESOURCES BOARD (ARB)	
2008	
8. Compliance and Test Methods	
8.1 Calculation of VOC Content	8.5.9 VOC Content of Coatings
8.2 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 CA Specification 01350**
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	
ANSI/ASHRAE/ICC/USGBC STANDARD 189.1	
2015	**2012**
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

Table 4 continued

Green Standards

2018	2018
INTERNATIONAL GREEN CONSTRUCTION CODE® (IgCC®)	
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 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	**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	
9.4.1.2 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: Option 2 International Alternative Compliance Path- Reach Optimization	MR Credit 2 Construction Waste Management
MR Credit: Construction and Demolition Waste Management	MR Credit 5 Regional Materials
Indoor Environmental Quality (EQ)	**Indoor Environmental Quality (IEQ)**
EQ Credit: Low-Emitting Materials: Option 1	IEQ Credit 4.2 Low Emitting Materials- Paints & Coatings
Innovation in Design (ID)	**Innovation in Design (ID)**
Credit 1 Innovation in Design	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	
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT (SCAQMD) RULE 1113	
2016	**2013**
Table of Standards 1, VOC Limits	**Table of Standards 1, VOC Limits**
Flats	Flats
(e) Test Methods	(e) Test Methods
(e)(1)(A) U.S. EPA Reference Test Method 24	(e)(1)(A) U.S. EPA Reference Test Method 24

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