

Issue Date: 01-25-2017
Revision Date: 09-14-2018
Renewal Date: 01-01-2019

DIVISION: 09 00 00 – FINISHES
Section: 09 96 43 – Fire-Retardant Coatings

DIVISION: 07 00 00 – THERMAL AND MOISTURE PROTECTION
Section: 07 21 00 – Thermal Insulation

REPORT HOLDER:

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REPORT SUBJECT:

DC315 Intumescent Coating

1.0 SCOPE OF EVALUATION

1.1 This Research Report addresses compliance with the following Codes:

- 2015 and 2012 *International Building Code*® (IBC)
- 2015 and 2012 *International Residential Code*® (IRC)

NOTE: This report references 2015 Code sections with [2012] Code sections shown in brackets where they differ.

1.2 DC315 has been evaluated for the following properties (see Table 1):

- Physical Properties
- Surface Burning Characteristics

1.3 DC315 has been evaluated for the following uses (see Table 1):

- Application to the surface of spray-applied foam plastic insulation within building interiors
- Coated foam plastic left exposed without Code-prescribed thermal barriers
- Coated foam plastic left exposed as interior finish
- Coated foam plastic used in attics and crawl spaces without a Code-prescribed ignition barrier

2.0 STATEMENT OF COMPLIANCE

DC315 complies with the Codes listed in Section 1.1, for the properties stated in Section 1.2, and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 6.

3.0 DESCRIPTION

3.1 **DC315:** DC315 is a single-component, water-based, liquid-applied intumescent fire-protective coating available in Low Sheen White, Ice Gray Matte, Dark Gray Matte, and Charcoal Black. The coating is supplied in 5-gallon pails and 55-gallon drums with a shelf-life of 1 year when stored in factory-sealed packages between 50°F and 80°F. The coating must be protected from freezing.

4.0 PERFORMANCE CHARACTERISTICS

4.1 **Coated Foam Assemblies without a Prescriptive Thermal Barrier:** When DC315 is applied to spray-applied foam plastic insulation installed in assemblies conforming to one of the configurations described in Table 2, the 15-minute thermal barrier prescribed in IBC Section 2603.4 and IRC Section R316.4 may be omitted.

4.2 **Coated Foam Assemblies as Interior Finish:** When DC315 is applied to spray-applied foam plastic insulation installed in assemblies conforming to one of the configurations described in Table 2, the coated foam plastic assembly meets the requirements for interior finish in IBC Section 803.1 and IRC Section R302.9 and may be left exposed to the interior of the building.



4.3 Coated Foam Assemblies without a Prescriptive Ignition Barrier:

4.3.1 Attics and Crawl Spaces: When DC315 is applied to spray-applied foam plastic insulation installed in assemblies conforming to one of the configurations described in Table 3, the ignition barrier prescribed in IBC Section 2603.4.1.6 and IRC Sections R316.5.3 and R316.5.4 may be omitted, subject to the following conditions:

- Entry to the attic or crawl space is only to service utilities, and no storage is permitted.
- There are no interconnected attic or crawl space areas.
- Air in the attic or crawl space is not circulated to other parts of the building.
- Under-floor (crawl space) ventilation is provided when required by IBC Section 1203.4 [1203.3] or IRC Section R408.1, as applicable.
- Attic ventilation is provided when required by IBC Section 1203.2 or IRC Section R806, except when air-impermeable insulation is permitted in unvented attics in accordance with IBC Section 1203.3 [not applicable under the 2012 and 2009 IBC] or IRC Section R806.5 [2009 - R806.4].
- Combustion air is provided in accordance with IMC (International Mechanical Code) Section 701 [Sections 701 and 703].

4.3.2 Use on Attic Floors: The coated foam assemblies may be installed in attic floors in accordance with this section, conditions a. through f. of Section 4.3, and Table 3 based on testing in accordance with AC377, Appendix X. The insulation must be separated from the interior of the building by an approved thermal barrier. The ignition barrier required in IBC Section 2603.4.1.6 and IRC R316.5.3 may be omitted.

5.0 INSTALLATION

5.1 General: DC315 must be installed in accordance with IFTI's published installation instructions, the applicable Code, and this Research Report. A copy of the manufacturer's instructions must be available on the jobsite during installation.

5.2 Application: DC315 must be thoroughly mixed prior to application. Foam plastic surfaces to receive the coating must be inspected in accordance with IFTI's installation guidelines.

The coating may be applied using high-pressure spray equipment, rollers, or brushes up to a maximum thickness of 24 mils wet film thickness (WFT) per coat at an application rate of approximately 1.5 gallons per 100 sq. ft. IFTI's installation instructions must be followed if either a primer coat of DC315 or multiple coats of DC315 are required to conform with assemblies, as described in Table 2 or Table 3, as applicable. Substrates must be free of debris or substances that may compromise adhesion of the coating.

The application window of the coating is between 50°F and 90°F with a Relative Humidity below 85%. Consult the manufacturer for ambient conditions outside of the recommended application window or if the temperature is within 5°F of the dew point.

5.3 Additional Finishes: The application of additional interior finishes over top of the DC315 is limited to coatings/topcoats described in Sections 5.3.1 and 5.3.2.

5.3.1 Latex paint: An interior/exterior latex paint, at a maximum nominal dry film thickness of 3 mils, may be installed over top of DC315 in any of the assemblies described in Table 2. The use of other finishes or coatings in addition to the interior/exterior latex paint described in this section is beyond the scope of this report.

5.3.2 Silicone alkyd topcoat: An interior/exterior topcoat consisting of 30% silicone alkyd with maximum 340 g/L VOC content (less exempt solvents), at a maximum nominal dry film thickness of 5 mils, may be applied over top of the DC315 in any of the assemblies described in Table 2. The silicone alkyd topcoat shall have a Flame Spread Index of 25 or less when tested in accordance with ASTM E84. The use of other finishes or coatings in addition to the interior/exterior silicone alkyd topcoat described in this section is beyond the scope of this report.





6.0 CONDITIONS OF USE

6.1 Installation must comply with this Research Report, the manufacturer’s published installation instructions, and the applicable Code. In the event of a conflict, this report governs.

6.2 The application of any additional interior finishes or topcoats over the DC315 coating is limited to what is described in Section 5.3. When a silicone alkyd topcoat is applied over DC315, evidence must be provided to the code official that the topcoat will provide a flame spread index of 25 or less when tested in accordance with ASTM E84 or UL 723.

6.3 Recognitions provided in this Research Report are limited to the specific assemblies and spray-applied foam plastic insulation products described in Tables 2 and 3.

6.4 The spray-applied foam plastic insulations identified in Tables 2 and 3 must be installed in accordance with the requirements described in the identified Code Evaluation Research Report.

6.5 The DC315 coating is manufactured in Irvine, CA (USA) and Taoyuan, Taiwan (R.O.C) under a quality control program with inspections by Intertek Testing Services NA, Inc. (AA-647).

7.0 SUPPORTING EVIDENCE

7.1 Reports of tests in accordance with ASTM E84, ASTM D2697, ASTM D1475, ASTM D2196, and NFPA 286.

7.2 Data in accordance with the ICC-ES Acceptance Criteria for Fire-Protective Coatings Applied to Spray-Applied Foam Plastic Insulation Installed Without a Code-Prescribed Thermal Barrier (AC456), dated October 2015.

7.3 Reports of tests in accordance with Appendix X of ICC-ES Acceptance Criteria for Spray-Applied Foam Plastic Insulation (AC377), dated April 2016.

7.4 Published Code Evaluation Research Reports recognizing compliance of specific spray-applied foam plastic insulations with the requirements of ICC-ES Acceptance Criteria for Spray-Applied Foam Plastic Insulation (AC377), dated April 2016.

7.5 Intertek Listing Reports "[IFTI - DC315 Water-based Fireproof Paint](#)" and "[INCA - International Carbide Technology DC315](#)", on the [Intertek Directory of Building Products](#).

8.0 IDENTIFICATION

Containers of the DC315 coating are identified with the manufacturer’s name [International Fireproof Technology, Inc. (IFTI) or International Carbide Technology Co., Ltd. (INCA)], address and telephone number, the product name (DC315), the Intertek Mark, and the Code Compliance Research Report number (CCRR-1076).



9.0 OTHER CODES

This section is not applicable.

10.0 CODE COMPLIANCE RESEARCH REPORT USE

10.1 Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

10.2 Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

10.3 Reference to the <https://bpdirectory.intertek.com> is recommended to ascertain the current version and status of this report.





TABLE 1 – PROPERTIES EVALUATED

PROPERTY	2015 IBC SECTION ¹	2015 IRC SECTION ¹
Physical Properties	Not Required	Not Required
Alternatives to Thermal Barriers	2603.4; 2603.9	R316.4; R316.6
Alternatives to Ignition Barriers	2603.4; 2603.9	R316.5.3; R316.5.4; R316.6

¹ Section numbers may be different for earlier versions of the International codes.

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TABLE 2 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed THERMAL BARRIER

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall)	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
Accella Polyurethane Systems, LLC	Sealtite CC+	ER-0556	5.5	9.5	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC	Sealtite OC+	ER-0557	11.5	11.5	20	13	1.3	NFPA 286
Accella Polyurethane Systems, LLC	Bayseal CCX / Bayseal CCXP	CCRR-1071; ER-0522	7.5	9.5	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC	Bayseal OC	CCRR-1100; ER-0519	10	11.5	22	14	1.3	NFPA 286
			8.5	14	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC	Bayseal OCX	CCRR-1049; ER-0541	9	14	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC	EcoBay CC / EcoBay CC Polar	ESR-3076	7.25	7.25	18	12	1.1	NFPA 286
Accella Polyurethane Systems, LLC dba Premium Spray Products	Foamsulate 210	ER-0351	8	12	20	13	1.1	NFPA 286
Accella Polyurethane Systems, LLC dba Premium Spray Products	Foamsulate 220	ER-0352	7.5	11.5	18	12	1.1	NFPA 286
			5.5	6.5	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC dba Premium Spray Products	Foamsulate 50	ER-0351	8	12	20	13	1.3	NFPA 286
			9	14	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC dba Premium Spray Products	Foamsulate 50 N-IB	ER-0394	7.5	11.5	18	12	1.1	NFPA 286
			9	14	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC dba QuadFoam	QuadFoam OCX; NatureSeal OCX; NatureSeal 500	ER-0285	7.5	11.5	18	12	1.1	NFPA 286
			9	14	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC dba QuadFoam Technologies	QuadFoam 2.0	ESR-3459; ER-0272	7.5	11.5	18	13	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Accella Polyurethane Systems, LLC dba Quadfoam Technologies	QuadFoam 500	ESR-3458; ER-0271	8	12	20	13	1.3	NFPA 286
Accella Polyurethane Systems, LLC dba Quadfoam Technologies	QuadFoam 500OC	CCRR-1111; ER-0590	8.5	14	14	9	0.9	8.5





TABLE 2 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed THERMAL BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall)	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
Accella Polyurethane Systems, LLC dba Quadfoam Technologies	NexGen 2.0	ER-0523	8	10	18	12	1.1	NFPA 286
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulBloc	ESR-1615	8.25	10.25	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulStar	ESR-1615	8.25	10.25	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Barnhardt Manufacturing Company dba NCFI Polyurethanes	Sealite OCX	ESR-3826	10	14	18	12	1.1	NFPA 286
BASF Corporation	ENERTITE NM	CCRR-1032; ESR-3102	7.5	14.5	18	12	1.1	NFPA 286
			8.5	14	14	9	0.9	NFPA 286
BASF Corporation	ENERTITE G	CCRR-1032; ESR-3102	8.5	14	14	9	0.9	NFPA 286
BASF Corporation	Spraytite 158	CCRR-1031; ESR-2642	5.5	7.5	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
BASF Corporation	Spraytite 178	CCRR-1031; ESR-2642	7.5	11.5	4 (Primer ¹) + 16 (Finish)	3 (Primer) + 11 (Finish)	0.25 (Primer) + 1.0 (Finish)	NFPA 286
BASF Corporation	Spraytite 81205	CCRR-1031; ESR-2642	5.5	7.5	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
BASF Corporation	Spraytite 81206	CCRR-1031; ESR-2642	7.5	11.5	4 (Primer ²) + 16 (Finish)	3 (Primer) + 11 (Finish)	0.25 (Primer) + 1.0 (Finish)	NFPA 286
BASF Corporation	Spraytite SP	CCRR-1031; ESR-2642	5.5	7.5	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
BASF Corporation	Walltite HP+	CCRR-1031; ESR-2642	7.5	11.5	4 (Primer ³) + 16 (Finish)	3 (Primer) + 11 (Finish)	0.25 (Primer) + 1.0 (Finish)	NFPA 286
BASF Corporation	Walltite US	CCRR-1031; ESR-2642	7.5	11.5	4 (Primer ⁴) + 16 (Finish)	3 (Primer) + 11 (Finish)	0.25 (Primer) + 1.0 (Finish)	NFPA 286
BASF Corporation	Walltite US-N	CCRR-1031; ESR-2642	7.5	11.5	4 (Primer ⁵) + 16 (Finish)	3 (Primer) + 11 (Finish)	0.25 (Primer) + 1.0 (Finish)	NFPA 286
Commercial Thermal Solutions, Inc.	Tiger Foam E-84 Fire-Rated SPF Class 1 Spray Foam System	ESR-3183	3.5	3.5	20	13	1.3	NFPA 286





TABLE 2 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed THERMAL BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall)	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
DAP Foam, Inc.	Touch 'n Seal Class I FR	ESR-3052	3.5	3.5	20	13	1.3	NFPA 286
DAP Foam, Inc.	Touch 'n Foam Professional Class I FR	ESR-3052	3.5	3.5	20	13	1.3	NFPA 286
Demilec (USA), Inc.	Agribalance	ESR-2600	7.5	11.5	18	12	1.1	NFPA 286
Demilec (USA), Inc.	APX	ESR-3470	8	10	20	13	1.3	NFPA 286
Demilec (USA), Inc.	Heatlok HFO	ESR-4073	7.5	11.5	14	9	0.9	NFPA 286
Demilec (USA), Inc.	Heatlok HFO Pro	ER-0565	7.5	11.5	14	9	0.9	NFPA 286
Demilec (USA), Inc.	Heatlok Soy 200 Plus	ESR-3210	7.5	11.5	18	12	1.1	NFPA 286
Demilec (USA), Inc.	Heatlok XT-s	ESR-3824	7.5	11.5	14	9	0.9	NFPA 286
Demilec (USA), Inc.	Heatlok XT-w	ESR-3883	7.5	11.5	14	9	0.9	NFPA 286
Demilec (USA), Inc.	Sealection 500	CCRR-1063; ESR-1172	7.5	11.5	18	12	1.1	NFPA 286
The DOW Chemical Company	Styrofoam CM 2045	ESR-2670	9.5	9.5	4 (Primer ⁶) + 18 (Finish)	3 (Primer) + 12 (Finish)	0.25 (Primer) + 1.1 (Finish)	NFPA 286
The DOW Chemical Company	Froth-Pak	ESR-3228	3.5	3.5	20	14	1.3	NFPA 286
Elastochem Specialty Chemicals, Inc.	Insulthane	ESR-3541	7.5	9.5	20	13	1.3	NFPA 286
Elastochem Specialty Chemicals, Inc.	Insulthane Extreme	ESR-3809	7.25	7.25	18	12	1.1	NFPA 286
EnergyOne America LLC	EOA 500	ESR-3686	11.5	11.5	18	12	1.1	NFPA 286
EnergyOne America LLC	EOA 2000	ER-0443	5.5	9.5	14	9	0.9	NFPA 286





TABLE 2 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed THERMAL BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall)	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
Gaco Western, LLC (a part of Firestone Building Products)	F1850	CCRR-1043	7.5	9.5	18	12	1.1	NFPA 286
			5.5	6.5	14	9	0.9	NFPA 286
Gaco Western, LLC (a part of Firestone Building Products)	F1880	CCRR-1106	9	12	14	9	0.9	NFPA 286
Gaco Western, LLC (a part of Firestone Building Products)	183M	CCRR-1002	5.5	7.5	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Gaco Western, LLC (a part of Firestone Building Products)	Gaco 052N	CCRR-1075; ESR 2478	11.25	11.25	20	13	1.3	NFPA 286
			11.25	11.25	14	9	0.9	NFPA 286
Gaco Western, LLC (a part of Firestone Building Products)	Gaco EZSpray F4500	CCRR-1107	8.5	14	14	9	0.9	NFPA 286
Gaco Western, LLC (a part of Firestone Building Products)	GacoFireStop2 F5001	CCRR-1009	18	18	18	12	1.1	NFPA 286
General Coatings Manufacturing Corp.	Ultra-Thane 230 Wall	ESR-3033	5.5	7.5	4 (Primer ⁷) + 18 (Finish)	3 (Primer) + 12 (Finish)	0.25 (Primer) + 1.1 (Finish)	NFPA 286
Henry Company	Permax 1.8 (RT-2045-1.8)	ESR-3024	11.25	11.25	21	14	1.3	NFPA 286
Henry Company	Permax 2.0 (RT-2045-2.0)	ESR-3024	11.25	11.25	21	14	1.3	NFPA 286
Henry Company	Permax 0.5LV	ESR-3646	11.5	11.5	18	12	1.3	NFPA 286
Henry Company	Permax 2.0X; Permax 2.0X Fast	ESR-3647	5.5	9.5	14	9	0.9	NFPA 286
ICP Adhesives & Sealants, Inc.	Handi-Foam E84 Class 1	ESR-2717	3.5	3.5	20	13	1.3	NFPA 286
Icynene, Inc.	Classic Plus	ESR-1826	6.5	11.5	20	13	1.3	NFPA 286
			8.5	14	14	9	0.9	NFPA 286
Icynene, Inc.	Classic	ESR-1826	6	14	20	13	1.3	NFPA 286
			8.5	14	14	9	0.9	NFPA 286
Icynene Inc	Prime Gold	ESR-4323	6	14	20	13	1.3	NFPA 286
			8,5	14	14	9	0.9	NFPA 286





TABLE 2 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed THERMAL BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall)	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
Icynene, Inc.	Classic Ultra	ESR-1826	8.5	14	14	9	0.9	NFPA 286
Icynene, Inc.	Classic Ultra Select	ESR-1826	8.5	14	14	9	0.9	NFPA 286
Icynene, Inc.	MD-C-200	ESR-3199	6	10	22	14	1.4	NFPA 286
Icynene, Inc.	ProSeal	ESR-3500	8	14	24	16	1.5	NFPA 286
			5	9.5	14	9	0.9	NFPA 286
Icynene, Inc.	ProSeal HFO; ProSeal HFO CW	CCRR-1108	8	12	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Icynene, Inc.	ProSeal LE	ESR-3500	8	14	24	16	1.5	NFPA 286
			5	9.5	14	9	0.9	NFPA 286
Johns Manville	Corbond III	ER-0146	7.5	11.5	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Johns Manville	Corbond MCS	ESR-3159	7.25	9.25	22	14	1.4	NFPA 286
Johns Manville	Corbond OC	ESR-3776	7.5	11.5	18	12	1.1	NFPA 286
Johns Manville	Corbond OCX	ER-0372	9	14	14	9	0.9	NFPA 286
Lapolla Industries, Inc.	FoamLok FL2000	ESR-2629	7.5	9.5	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Lapolla Industries, Inc.	FoamLok FL2000-4G	CCRR-1025	8	12	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Lapolla Industries, Inc.	FoamLok FL500	CCRR-1091; ESR-2847	5.25	11.25	20	13	1.3	NFPA 286
			8.5	14	14	9	0.9	NFPA 286
Lapolla Industries, Inc.	FoamLok FL400	CCRR-1091	5.25	11.25	20	13	1.3	NFPA 286
			8.5	14	14	9	0.9	NFPA 286
Natural Polymers, LLC	NaturalTherm 0.5	ER-0336; ESR-3136	8	10	20	14	1.3	NFPA 286





TABLE 2 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed THERMAL BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall)	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
Natural Polymers, LLC	NaturalTherm 2.0 IBW and 2.0 IBS	ER-0336	11.25	11.25	21	14	1.3	NFPA 286
			5.5	11.5	14	9	0.9	NFPA 286
NuWool Company Incorporated	Nu-Seal 0.5	ESR-3136	8	10	20	14	1.3	NFPA 286
NuWool Company Incorporated	Nu-Seal 2.0W	ESR-3136	8	10	20	14	1.3	NFPA 286
Patriot Spray Foam, Inc.	Patriot 200	ESR-4065	8	14	24	16	1.5	NFPA 286
			5	9.5	14	9	0.9	NFPA 286
Patriot Spray Foam, Inc.	Patriot 500	ESR-4064	6	14	20	13	1.3	NFPA 286
Patriot Spray Foam, Inc.	Patriot 500 HY	ESR-4064	6	14	20	13	1.3	NFPA 286
Preferred Solutions, Inc.	Staycell 302	ER-0569	7.5	11.5	18	12	1.1	NFPA 286
			5.5	6.5	14	9	0.9	NFPA 286
Profoam Corporation	ProSeal 2.0	ESR-3835	8.25	10.25	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Rhino Linings USA, Inc.	ThermalGuard CC2	ESR-2100	8	10	18	13	1.1	NFPA 286
Rhino Linings USA, Inc.	ThermalGuard OC.5	ESR-2100	7.5	11.5	18	13	1.1	NFPA 286
SES Foam LLC	Nexseal 2.0	ER-0374	8.25	10.25	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
SES Foam LLC	Nexseal 2.0 LE	ER-0374	8.25	10.25	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
SES Foam LLC	SES 2.0	ER-0374	8.25	10.25	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
SES Foam LLC	SES 2.0 LE	ER-0374	8.25	10.25	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
SES Foam LLC	SES Foam 0.5	ER-0492	9.5	11.5	18	12	1.1	NFPA 286
			8.5	14	14	9	0.9	NFPA 286





TABLE 2 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed THERMAL BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall)	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
SES Foam LLC	SucraSeal 0.5	ESR-3375	11.5	11.5	18	12	1.1	NFPA 286
			8.5	14	14	9	0.9	NFPA 286
Sustainable Polymer Products	2.0 CC	ER-511	5.5	6.5	14	9	0.9	NFPA 286
Sustainable Polymer Products	0.5 OCX	ER-512	9	14	14	9	0.9	NFPA 286
Sustainable Polymer Products	0.5 OC	ER-513	9	14	14	9	0.9	NFPA 286
Sustainable Polymer Products	0.5 OC HY	ER-514	8	12	20	13	1.3	NFPA 286
SWD Urethane	QuickShield QS100X	CCRR-1050	7	11	18	12	1.1	NFPA 286
SWD Urethane	QuickShield QS106	CCRR-1011	11.25	11.25	24	15	1.5	NFPA 286
SWD Urethane	QuickShield QS108	CCRR-1051	8	14	18	12	1.1	NFPA 286
			8.5	14	14	9	0.9	NFPA 286
SWD Urethane	QuickShield QS112	CCRR-1011	11.25	11.25	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
SWD Urethane	QuickShield QS112XC	CCRR-1011	11.25	11.25	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
SWD Urethane	QuickShield QS118	CCRR-1093	11.25	11.25	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
The Spray Market	SPM-50M	CCRR-1101	7.5	11.5	18	12	1.1	NFPA 286
The Spray Market	SPM-24K	CCRR-1084	8.5	14	14	9	0.9	NFPA 286
Thermoseal LLC	Thermoseal 2000/2000W	ER-0581	7.5	9.5	20	13	1.3	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286
Thermoseal LLC	Thermoseal CCX	ESR-4137	7.5	11.5	14	9	0.9	NFPA 286



TABLE 2 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed THERMAL BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall)	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
Thermoseal LLC	Thermoseal OCX	CCRR-1095	7.5	11.5	18	12	1.1	NFPA 286
Volatile Free, Inc.	VFI-714	ER-0415	7.5	11.5	18	12	1.1	NFPA 286
			5.5	6.5	14	9	0.9	NFPA 286
Volatile Free, Inc.	VFI-716	ER-0414	8	12	20	13	1.3	NFPA 286
			9	14	14	9	0.9	NFPA 286
XtremeSeal, LLC	XtremeSeal 0.5 LX	ER-0538	8.5	14	14	9	0.9	NFPA 286
XtremeSeal, LLC	XtremeSeal 2.0 LE	ER-0537	8.25	10.25	18	12	1.1	NFPA 286
			5.5	9.5	14	9	0.9	NFPA 286

¹ Primer Coat of DC315² Primer Coat of DC315³ Primer Coat of DC315⁴ Primer Coat of DC315⁵ Primer Coat of DC315⁶ Primer Coat of DC315⁷ DTM Bonding Primer manufactured by Sherwin Williams



TABLE 3 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed IGNITION BARRIER

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall); Attic Floors	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
Accella Polyurethane Systems, LLC	Sealtite OC+	R-0557	14	14	4	3	0.3	AC377, Appendix X
Accella Polyurethane Systems, LLC	Bayseal OC	ESR-1655	9.5	11.5	4	3	0.3	AC377, Appendix X
Accella Polyurethane Systems, LLC	Bayseal CC	ESR-3999	7.5	11.5	7	5	0.5	AC377, Appendix X
Accella Polyurethane Systems, LLC dba Premium Spray Products	Foamsulate 50	ESR-3081; ER-0351	12	12	4	3	0.3	AC377, Appendix X
Accella Polyurethane Systems, LLC dba QuadFoam	QuadFoam 500	ESR-3458; ER-0271	7.5	11.5	4	3	0.3	AC377, Appendix X
BASF Corporation	ENERTITE NM	CCRR-1032; ESR-3102	11.5	15.5	4	3	0.3	AC377, Appendix X
BASF Corporation	ENERTITE G	CCRR-1032; ESR-3102	11.5	15.5	4	3	0.3	AC377, Appendix X
BASF Corporation	Spraytite 158	CCRR-1031; ESR-2642	5.5	11.5	4	3	0.3	AC377, Appendix X
BASF Corporation	Spraytite 178	CCRR-1031; ESR-2642	5.5	11.5	4	3	0.3	AC377, Appendix X
BASF Corporation	Spraytite 81205	CCRR-1031; ESR-2642	5.5	11.5	4	3	0.3	AC377, Appendix X
BASF Corporation	Spraytite 81206	CCRR-1031; ESR-2642	5.5	11.5	4	3	0.3	AC377, Appendix X
BASF Corporation	Spraytite SP	CCRR-1031; ESR-2642	5.5	11.5	4	3	0.3	AC377, Appendix X
BASF Corporation	Walltite HP+	CCRR-1031; ESR-2642	5.5	11.5	4	3	0.3	AC377, Appendix X
BASF Corporation	Walltite US	CCRR-1031; ESR-2642	5.5	11.5	4	3	0.3	AC377, Appendix X





TABLE 3 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed IGNITION BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall); Attic Floors	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
BASF Corporation	Walltite US-N	CCRR-1031; ESR-2642	5.5	11.5	4	3	0.3	AC377, Appendix X
Demilec (USA), Inc.	Agribalance	ESR-2600	7.5	11.5	4	3	0.3	AC377, Appendix X
Demilec (USA), Inc.	Sealection 500	CCRR-1063; ESR-1172	7.5	11.5	4	3	0.3	AC377, Appendix X
Gaco Western, LLC (a part of Firestone Building Products)	Gaco 052N	CCRR-1075; ESR 2478	11.25	11.25	4	3	0.3	AC377, Appendix X
General Coatings Manufacturing Corp.	Ultra-Thane 230 Wall	ESR-3033	7.5	11.5	4	3	0.3	AC377, Appendix X
Henry Company	Permax 0.5LV	ESR-3646	11.5	11.5	4	3	0.3	AC377, Appendix X
Icynene, Inc.	Classic Plus	ESR-1826	5.5	14	4	3	0.3	AC377, Appendix X
Icynene, Inc.	Classic	ESR-1826	5.5	14	4	3	0.3	AC377, Appendix X
Icynene, Inc.	Classic Ultra Select	ESR-1826	5.5	14	4	3	0.3	AC377, Appendix X
Icynene, Inc.	ProSeal	ESR-3500	7.5	9.5	4	3	0.3	AC377, Appendix X
Icynene, Inc.	ProSeal LE	ESR-3500	7.5	9.5	4	3	0.3	AC377, Appendix X
Icynene, Inc.	Prime Gold	ESR-4323	6	14	4	3	0.3	AC377, Appendix X
Johns Manville	Corbond III	ER-0146	7.5	7.5	4	3	0.3	AC377, Appendix X
Lapolla Industries, Inc.	FoamLok FL500	CCRR-1091; ESR-2847	5.5	11.5	4	3	0.3	AC377, Appendix X
Lapolla Industries, Inc.	FoamLok FL400	CCRR-1091	5.5	11.5	4	3	0.3	AC377, Appendix X
Natural Polymers, LLC	NaturalTherm ZERO	ER-0527	7.5	11.5	7	5	0.5	AC377, Appendix X



TABLE 3 – COATING AND FOAM ASSEMBLIES WITHOUT A CODE-PREScribed IGNITION BARRIER - *continued*

Insulation Supplier	Insulation Product	Insulation Code Evaluation Research Report	Assembly Details					Test Method
			Insulation Details		DC315 Coating Details			
			Maximum Average Thickness, in.		Minimum Average Thickness, mils		Theoretical Application Rate	
			Vertical (e.g. Wall); Attic Floors	Overhead (e.g. Ceiling)	Wet Film (WFT)	Dry Film (DFT)	gal/100 ft ²	
Patriot Spray Foam, Inc.	Patriot 200	ESR-4065	7.5	9.5	4	3	0.3	AC377, Appendix X
Patriot Spray Foam, Inc.	Patriot 500	ESR-4064	5.5	14	4	3	0.3	AC377, Appendix X
Patriot Spray Foam, Inc.	Patriot 500 HY	ESR-4064	5.5	14	4	3	0.3	AC377, Appendix X
Rhino Linings USA, Inc.	ThermalGuard OC.5	ESR-2100	8	12	4	3	0.3	AC377, Appendix X
SES Foam LLC	SES Foam 0.5	ER-0492	9.5	11.5	4	3	0.3	AC377, Appendix X
The Spray Market	SPM-50M	CCRR-1101	7.5	11.5	4	3	0.3	AC377, Appendix X
The Spray Market	SPM-24K	CCRR-1084	8.5	14	4	3	0.3	AC377, Appendix X
SWD Urethane	QuickShield QS108	CCRR-1051	8	14	4	3	0.3	AC377, Appendix X