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DC315 FIELD APPLIED INTUMESCENT COATINGS

CSI Section:
09 96 43 Fire-Retardant Coatings

1.0 RECOGNITION

DC315 has been evaluated for use as a fire-protective coating for foam plastic products. The coating has been evaluated for the contribution of wall and ceiling finish materials to room fire growth and as alternate to the prescriptive themal barrier required in Section 2603.4 of the IBC and Section 316.4 of the IRC. The coating has also been evaluated as an alternate to the prescriptive ignition barriers required in Section 2603.4.1.6 of the IBC and Sections R316.5.3 and R316.5.4 of the IRC. DC315 evaluated in this report is a satisfactory alternative to the following codes and regulations:

- 2018, 2015, and 2012 International Building Code® (IBC)
- 2018, 2015, and 2012 International Residential Code® (IRC)
- AC456
- AC377

2.0 LIMITATIONS

Use of DC315 recognized in this report is subject to the following limitations:

2.1 The application of any additional interior finish over the fire-protective coating is limited to interior and exterior latex or waterborne acrylic paints. Additional applications of primers, including vapor retardant coatings, applied under the DC315 fire-protective coating is acceptable and shall be applied where noted in the tested systems listed in Tables 1 and 2 of this report.

2.2 Spray Foam Plastic insulation shall be installed in accordance with the manufacturer's installation instructions.

2.3 Approval of DC315 for use with any insulation product listed herein is conditional upon that insulation products' current approval for use with DC315. Users shall independently verify the current validity of any evaluation report referenced herein.

2.4 The fire-protective coating recognized in this report is produced by International Fireproof Technology in Taoyan, Taiwan, and Irvine, California.

3.0 PRODUCT USE

3.1 Design

3.1.1 Application as an Alternative Thermal Barrier Assembly: DC315, when applied to the foam plastic products in the average nominal thickness shown in Table 1 of this report, provides an alternative thermal barrier assembly to the prescriptive thermal barrier required in Section 2603.4 of the IBC and Section R316.4 of the IRC.

3.1.2 Application as an Alternative Ignition Barrier Assembly: DC315, when applied to the foam plastic products in the average nominal thickness shown in Table 2 of this report, provides an alternative ignition barrier assembly to the prescriptive ignition barrier required in Section 2603.4.1.6 of the IBC and Item 3 of Sections R316.5.3 and R316.5.4 of the IRC.

3.1.3 Interior Finish: The foam plastic insulation with DC315 coating installed as shown in Tables 1 and 2 of this report 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. The combinations shown in Table 1 of this report have been tested in accordance with NFPA 286 and have met the acceptance criteria of 2018 IBC Section 803.1.1.1 and 2015 and 2012 IBC Section 803.1.2.1, qualifying the assembly to be used where a Class A classification in accordance with ASTM E84 or UL723 is required as applicable to Sections 803.1.2 and 803.13 of the 2018 IBC, Sections 803.1.1 and 803.11 of the 2015 IBC, and Sections 803.1.1 and 803.9 of the 2012 IBC.

3.1.4 Use as an Interior Finish or Interior Trim in Plenums: Foam plastic insulations installed as shown in Table 1 of this report have been evaluated for use as an interior finish or interior trim in plenums as required by Section 2603.7 of the IBC and shall exhibit a flame spread index of 75 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84 and meets the acceptance criteria of Section 803.1.1 of the 2018 and 2012 IBC and Section 803.1.2 of the 2015 IBC when tested to NFPA 286.

3.2 Application

3.2.1 General: DC315 shall be applied in accordance with International Fireproof Technology's installation instructions, the spray foam plastic manufacturer's installation instructions, this evaluation report, and the applicable codes listed in Section 1.0 of this report. Where conflicts occur, the more restrictive governs. The manufacturer's published installation instructions and this report shall be available and strictly adhered to at all times at the jobsite during application.

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with Section 104.2.3 of the 2024 IBC and Section 104.11 of previous editions. This document shall only be reproduced in its entirety.

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3.2.2 Application: DC315 shall be applied to the applicable foam plastic insulation as shown in Table 1 or Table 2 of this report, as applicable. Before application of DC315, the foam plastic insulation shall be allowed to cool and cure a minimum of one hour or as required by the foam plastic manufacturer, as applicable. The surface of the foam plastic shall be clean, firm, and dry before application. DC315 shall be thoroughly mixed before application.

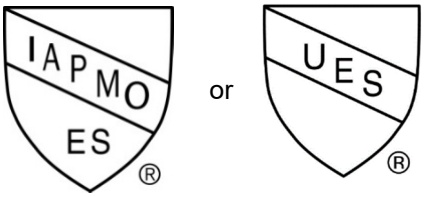
Spray polyurethane foam insulation is inherently irregular on the exposed face and may have small gaps, pin holes, or minor surface irregularities. Intumescent coatings may appear to be translucent and will not hide the spray foams inherent irregularities. In the event of a fire, intumescent coatings expand and intumesce to form a protective barrier over the underlying spray foam insulation. The application rate described in Section 3.2 of this report has been shown through testing to provide adequate coverage for use over spray foam plastic insulation in accordance with the average nominal installed thickness listed in Tables 1 and 2 of this report. The application of additional intumescent paint to an assembly that already has the prescribed amount applied will not increase the fire performance and is not recommended by the manufacturer.

4.0 PRODUCT DESCRIPTION

DC315 intumescent coating is manufactured by International Fireproof Technology, Inc. and is available in the colors of white, ice gray, dark gray, and charcoal black. The coating is water-based and supplied in 5-gallon (18.9 L) pails weighing 58 lbs. (26.3 kg) and 55-gallon (208 L) drums weighing 640 lbs. (290 kg). The coating material has a maximum shelf life of 12 months when stored in factory-sealed containers at temperatures between 50°F and 90°F (10°C and 32°C). DC315 has a minimum 24-hour curing time.

5.0 IDENTIFICATION

DC315 pails and drums are identified by International Fireproof Technology's name and address, product name (DC315), date of manufacture, product shelf life, conditions for storage and evaluation report number (ER-499). Either IAPMO Uniform Evaluation Service Mark of Conformity may also be used as shown below:



IAPMO UES ER-499

6.0 SUBSTANTIATING DATA

6.1 Manufacturer's descriptive literature and installation instructions. Test reports are from laboratories in compliance with ISO/IEC 17025.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Insulation, AC377, dated April 2016, editorially revised April 2018, including test reports in accordance with Appendix X of AC377.

6.3 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, editorially revised July 2018.

6.4 Report of testing in accordance with ASTM E84 Surface Burning Characteristics of Building Materials.

6.5 Report of testing in accordance with NFPA 286 Standard Method of Fire Test for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.

6.6 Report of Testing in accordance with ASTM D2697 Standard Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings.

6.7 Report of testing in accordance with ASTM D1475 Standard Test Method for Density of Liquid Coatings, Inks and Related Products.

6.8 Report of testing in accordance with ASTM D2196 Standard Test Methods for Rheological Properties of Non-Newtonian Materials by Rotational Viscometer.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on DC315 field applied intumescent coatings to the conformance to the codes shown in Section 1.0 of this report and documents the product's certification. This coating is produced at locations noted in Section 2.4 of this report under a quality control program with periodic inspection under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

TABLE 1
Foam Plastic Products Approved for Use with DC315 as Assemblies Not Requiring a Prescriptive 15-Minute Thermal Barrier
(All alternative thermal barrier assemblies shown below are based on testing to NFPA 286)

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315				Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4] (mils)		Theoretical Application Rate [3]			
				Wet Film	Dry Film	gallons/100 square feet	sqft/gal	Vertical	Overhead
Acme Urethanes	WC-.50	0.5 pcf	ER-605	18	12	1.1	89	10	12
AMD Distribution	Diamondback CC	2.0 pcf	ESR-4438	22	14	1.4	73	5.5	9.5
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulStar	2.0 pcf	ESR-1615	14	9	0.87	115	5.5	9.5
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulStar® SmartSPF	1.7 pcf	ER-667	14	9	0.87	115	5.5	9.5
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulStar® 1.7 SmartSPF	1.7 pcf	ER-667	14	9	0.87	115	5.5	9.5
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulStar Light 12-008	0.5 pcf	CCRR-0323	14	9	0.87	115	8	14
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulBloc®	2.0 pcf	ESR-1615	14	9	0.87	115	5.5	9.5
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulBloc®SmartSPF	2.0 pcf	ER-667	14	9	0.87	115	5.5	9.5
Barnhardt Manufacturing Company dba NCFI Polyurethanes	Sealite OCX	0.5 pcf	ESR-3826	18	12	1.1	89	10	14
Barnhardt Manufacturing Company dba NCFI Polyurethanes	NCFI 23-026	2.5 pcf	BRYX-R7374	18	12	1.1	89	6	6
BASF Corporation	Entertite® G	0.6 pcf	CCRR-1032, ESR-3102	14	9	0.87	115	8.5	14
BASF Corporation	Enertite® IB-418	0.5 pcf	CCRR-1032; ESR-3102	14	9	0.87	115	8.5	14
BASF Corporation	Enertite® NM	0.5 pcf	CCRR-1032; ESR-3102	14	9	0.87	115	8.5	14
BASF Corporation	Spraytite 158	2.0 pcf	CCRR 1031; ESR-2642	14	9	0.87	115	5.5	9.5
BASF Corporation	Spraytite 178	2.0 pcf	CCRR 1031; ESR-2642	20	14	1.25	80	5.5	11.5
BASF Corporation	Spraytite 81205	2.0 pcf	CCRR-1031; ESR-2642	14	9	0.87	115	5.5	9.5
BASF Corporation	Spraytite 81206	2.0 pcf	CCRR-1031; ESR-2642	20	14	1.25	80	5.5	11.5
BASF Corporation	Spraytite Comfort	2.0 pcf	CCRR-1031	14	9	0.87	115	5.5	9.5

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315				Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4]		Theoretical Application Rate[3]			
				Wet Film	Dry Film	gallons/100 square feet	sqft/gal	Vertical	Overhead
BASF Corporation	Spraytite Comfort Plus	2.0 pcf	CCRR-1031	14	9	0.87	115	5.5	9.5
BASF Corporation	Spraytite LWP-L	2.0 pcf	CCRR-1031	14	9	0.87	115	5.5	9.5
BASF Corporation	Spraytite SP	2.0 pcf	CCRR-1031; ESR-2642	14	9	0.87	115	5.5	9.5
BASF Corporation	Walltite 200	2.0 pcf	ESR-2642	20	14	1.25	80	5.5	11.5
BASF Corporation	Walltite HP+	2.0 pcf	CCRR-1031; ESR-2642	20	14	1.25	80	5.5	11.5
BASF Corporation	Walltite HP+S	2.0 pcf	CCRR-1031	20	14	1.25	80	5.5	11.5
BASF Corporation	Walltite LWP	2.0 pcf	CCRR-1031	20	14	1.25	80	5.5	11.5
BASF Corporation	Walltite US-N	2.0 pcf	ESR-2642	20	14	1.25	80	5.5	11.5
BASF Corporation	Walltite US	2.0 pcf	CCRR-1031; ESR-2642	20	14	1.25	80	5.5	11.5
Carlisle Spray Foam Insulation	Foamsulate™ 50	0.5 pcf	ER-351	14	9	0.87	115	8.5	14
Carlisle Spray Foam Insulation	SealTite PRO No Mix	0.5 pcf	ER-616	14	9	0.87	115	8.5	14
Carlisle Spray Foam Insulation	SealTite PRO OCX	0.5 pcf	ER-615	14	9	0.87	115	9	14
Carlisle Spray Foam Insulation	SealTite PRO High Yield	0.5 pcf	ER-623	14	9	0.87	115	8.5	14
Carlisle Spray Foam Insulation	SealTite PRO Open Cell	0.5 pcf	ER-624	14	9	0.87	115	8.5	14
Carlisle Spray Foam Insulation	SealTite™ PRO No Trim 21	0.75 pcf	ER-618	20	13	1.3	80	11.5	11.5
Carlisle Spray Foam Insulation	SealTite™ PRO HFO	2.0 pcf	ER-720	14	9	0.87	115	7.5	11.5
Carlisle Spray Foam Insulation	Foamsulate 50 HY	0.5 pcf	ER-540	14	9	0.87	115	8.5	14
Carlisle Spray Foam Insulation	Foamsulate™ 50 OCX	0.5 pcf	ER-394	14	9	0.87	115	9	14
Certainteed	Certaspray CC	2.0 pcf	ESR-3758	14	9	0.87	115	5.5	9.5
Certainteed	Certaspray OCX	0.5 pcf	ESR-3759	20	13	1.25	80	5.25	14
Commercial Thermal Solutions	Tiger Foam® E84 Fire-rated SPF Class 1 Spray Foam System	2.1 pcf	ESR-3183	20	13	1.3	80	3.5	3.5
Creative Polymer Solutions	AccuFoam OC	0.5 pcf	ER-699	18	12	1.1	89	10	12
Creative Polymer Solutions	AccuFoam CC	0.5 pcf	ER-699	19	13	1.2	84	5.5	9.5
DAP Foam, Inc.	Touch 'n Seal Class 1	2.2 pcf	ESR-3052	20	13	1.3	80	3.5	3.5

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315				Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4] (mils)		Theoretical Application Rate [3]			
				Wet Film	Dry Film	gallons/ 100 square feet	sqft/gal	Vertical	Overhead
DAP Foam, Inc.	Touch 'n Professional Class 1	2.2 pcf	ESR-3052	20	13	1.3	80	3.5	3.5
DAP Foam, Inc.	Touch 'n Seal Class 1 (LOW-GWP)	2.0 pcf	ESR-3052	18	12	1.1	89	3.25	3.25
Demilec	Agribalance	0.6 pcf	ESR-2600	18	12	1.1	89	7.5	11.5
Demilec	APX	0.5 pcf	ESR-3470	20	13	1.3	80	8	10
Demilec	HeatLok Soy 200+	2.0 pcf	ESR-3210	18	12	1.1	89	7.5	11.5
Demilec	HeatLok XT-S	2.0 pcf	ESR-3824	14	9	0.87	115	7.5	11.5
Demilec	HeatLok XT-W	2.0 pcf	ESR-3883	14	9	0.87	115	7.5	11.5
Demilec	HeatLok HFO	2.0 pcf	ESR-4073	14	9	0.87	115	7.5	11.5
Demilec	HeatLok HFO Pro	2.0 pcf	ER-565	18	12	1.1	89	7.5	11.5
Demilec	Sealection 500	0.5 pcf	CCRR-1063; ESR-1172	18	12	1.1	89	7.5	11.5
Demilec	Sealection NM	0.5 pcf	ESR-2668	18	12	1.1	89	7.5	11.5
DuPont de Nemours	FROTH-PAK™	1.75 pcf	ESR-3228	20	14	1.3	80	3.5	3.5
Elastochem Specialty Chemicals Inc.	Insulthane Extreme	2.0 pcf	ESR-3809	18	12	1.1	89	7.25	7.25
Elastochem Specialty Chemicals Inc	Insulthane Proline Plus	2.0 pcf	ESR-3541	14	9	0.87	115	5.5	9.5
Energy One America	EOA 500	0.5 pcf	ESR-3686	14	9	0.87	115	9	14
Gaco Western	F1850	2.0 pcf	CCRR-1043	14	9	0.87	115	5.5	9.5
Gaco Western	F1880	2.2 pcf	CCRR-1106	14	9	0.87	115	9	12
Gaco Western	183M	2.0 pcf	CCRR-1002	14	9	0.87	115	5.5	9.5
Gaco Western	Gaco Green 052N	0.5 pcf	CCRR-1075; ESR-2478	14	9	0.87	115	11.25	11.25
Gaco Western	Gaco Firestop2 F5001	0.5 pcf	CCRR-1009	18	12	1.1	89	18	18
Gaco Western	GacoEZSpray F4500	0.55 pcf	CCRR-1107	14	9	0.87	115	8.5	14
General Coatings Manf. Corp.	Ultrathane 050	0.5 pcf	CCRR-0358	18	12	1.1	115	8.5	14
General Coatings Manf. Corp.	Ultrathane 050 Max	0.5 pcf	CCRR-0358	21	14	1.3	76	8	14
General Coatings Manf. Corp.	Ultrathane 230	2.0 pcf	ESR-3033	22	15	1.4	73	5.5	7.5
General Coatings Manf. Corp.	Ultrathane 202	2.0 pcf	CCRR-0345	18	12	1.1	115	8	12
General Coatings Manf. Corp.	Ultrathane 202 Hight-Lift	2.0 pcf	CCRR-0345	16	11	1.0	100	8	12
General Coatings Manf. Corp.	Ultrathane 170	1.7 pcf	CCRR-0345	16	11	1.0	100	8	12
Henry Company	Permax 1.8 (RT 2045 1.8)	1.8 pcf	ESR-3024	21	14	1.3	77	11.25	11.25
Henry Company	Permax 2.0 (RT 2045 2.0)	2.0 pcf	ESR-3024	21	14	1.3	77	11.25	11.25
Henry Company	Permax 2.0X Fast	2.0 pcf	ESR-3647	14	9	0.87	115	5.5	9.5

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315				Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4] (mils)		Theoretical Application Rate [3]			
				Wet Film	Dry Film	gallons/100 square feet	sqft/gal	Vertical	Overhead
Henry Company	Permax 2.0X	2.0 pcf	ESR-3647	14	9	0.87	115	5.5	9.5
Henry Company	Permax 0.5LV	0.5 pcf	ESR-3646	18	12	1.3	89	11.5	11.5
ICP Adhesive and Sealants	Handi-foam E84 Class 1	2.0 pcf	ESR-2717	20	13	1.3	80	3.5	3.5
Icynene, Inc.	Classic Plus	0.7 pcf	ESR-1826	14	9	0.87	115	8.5	14
Icynene, Inc.	Classic	0.5 pcf	ESR-1826	14	9	0.87	115	8.5	14
Icynene, Inc.	Classic Ultra	0.5 pcf	ESR-1826	14	9	0.87	115	8.5	14
Icynene, Inc.	Classic Ultra Select	0.5 pcf	ESR-1826	14	9	0.87	115	8.5	14
Icynene, Inc.	LD-C-50 No Mix	0.5 pcf	CCRR-1123	14	9	0.87	115	8.5	14
Icynene, Inc.	MD-C-200	2.4 pcf	ESR-3199	22	14	1.4	73	6	10
Icynene, Inc.	ProSeal	2.0 pcf	ESR-3500	14	9	0.87	115	5.5	9.5
Icynene, Inc.	ProSeal HFO	2.0 pcf	CCRR-1108	14	9	0.87	115	5.5	9.5
Icynene, Inc.	ProSeal LE	2.0 pcf	ESR-3500	14	9	0.87	115	5.5	9.5
Johns Manville	JM Corbond® III Performance Insulation	2.0 pcf	ER-146	14	9	0.87	115	5.5	9.5
Johns Manville	JM Corbond® oc SPF	0.5 pcf	CCRR-1079	18	12	1.3	89	7.5	11.5
Johns Manville	JM Corbond® ocx SPF	0.5 pcf	ESR-3777	14	9	0.87	115	9	14
Johns Manville	JM Corbond® MCS	2.0 pcf	ESR-3159	22	14	1.4	73	7.25	9.25
LaPolla Industries	Foam-Lok FL 450	0.5 pcf	ESR-4242	14	9	0.87	115	8.5	14
LaPolla Industries	FL500	0.5 pcf	ESR-2847	14	9	0.87	115	8.5	14
LaPolla Industries	FL750	0.7 pcf	ESR-4322	14	9	0.87	115	8.5	14
Lapolla Industries	FL2000-3G	2.4 pcf	ESR--4501	22	14	1.4	73	6	10
Lapolla Industries	FoamLok FL2000-4G	2.0 pcf	CCRR-1025	14	9	0.87	115	5.5	9.5
LaPolla Industries	FL 2000	2.0 pcf	ESR-2629	14	9	0.87	115	5.5	9.5
LaPolla Industries	Prime Gold	0.5 pcf	ESR-4323	14	9	0.87	115	8.5	14
Natural Polymers, LLC	Natural-Therm® 0.50 pcf	0.5 pcf	ER-336	14	9	0.87	115	8.5	14
Natural Polymers, LLC	Natural-Therm® 0.5 IB	0.5 pcf	ER-503	14	9	0.87	115	5.5	9.5
Natural Polymers, LLC	Natural-Therm® Light	0.5 pcf	ER-589	14	9	0.87	115	5.5	9.5
Natural Polymers, LLC	Natural-Therm® 2.0 IBW	2.0 pcf	ER-336	14	9	0.87	115	5.5	14
Natural Polymers, LLC	Natural-Therm® 2.0 IBS	2.0 pcf	ER-336	14	9	0.87	115	5.5	14
Natural Polymers, LLC	Natural-Therm® ZERO	2.0 pcf	ER-527	14	9	0.87	115	5.5	9.5
Natural Polymers, LLC	Natural-Therm® 2.0 HFO IBW IBS	2.0 pcf	ER-714	14	9	0.87	115	5.5	14
North American Spray Foam Polymers	EcoPolySeal Open Cell	0.5 pcf	ESR-4483	18	12	1.1	89	7.5	11.5
North American Spray Foam Polymers	EPS 2000 Closed Cell	2.0 pcf	ESR-4484	14	9	0.87	115	7.5	11.5

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315				Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4] (mils)		Theoretical Application Rate [3]			
				Wet Film	Dry Film	gallons/ 100 square feet	sqft/gal	Vertical	Overhead
Patriot Spray Foam, Inc.	Patriot 200	2.0 pcf	ESR-4065	14	9	0.87	115	5.5	9.5
Patriot Spray Foam, Inc.	Patriot 500	0.5 pcf	ESR-4064	20	13	1.3	77	6	14
Patriot Spray Foam, Inc.	Patriot 500 HY	0.5 pcf	ESR-4064	20	13	1.3	77	6	14
PCC Prodex	Crossin 450	0.5 pcf	ER-785	18	12	1.1	89	8	14
Profoam	Proseal	2.0 pcf	ESR-3835	14	9	0.87	115	5.5	9.5
Purinova	Purios 500	0.6 pcf	ESR-4165	18	12	1.1	89	8	14
Rhino Linings.	ThermalGuard OC.5	0.5 pcf	ESR-2100	18	13	1.1	89	7.5	11.5
Rhino Linings	Thermal Guard CC2	2.0 pcf	ESR-2100	14	9	0.87	115	5.5	9.5
SES Foam, LLC	Nexseal 2.0	2.0 pcf	ER-374	14	9	0.87	115	5.5	9.5
SES Foam, LLC	Nexseal 2.0 LE	2.0 pc	ER-374	14	9	0.87	115	5.5	9.5
SES Foam, LLC	SES 2.0	2.0 pcf	ER-374	14	9	0.87	115	5.5	9.5
SES Foam, LLC	SES 2.0 LE	2.0 pcf	ER-374	14	9	0.87	115	5.5	9.5
SES Foam, LLC	SES Foam 0.5	0.5 pcf	ER-492	14	9	0.87	115	8.5	14
SES Foam, LLC	SucraSeal 0.5	0.5 pcf	ESR-3375	14	9	0.87	115	9	14
Soprema Corporation	Sopra SPF-202	2.0 pcf	ESR-4411	18	12	1.1	89	7.25	7.25
SWD Urethane	Quik-Shield 104	0.4 pcf	TER-1803	18	12	1.1	89	8	14
SWD Urethane	Quik-Shield 106	0.5 pcf	CCCR-1011	24	15	1.5	67	11.25	11.25
SWD Urethane	Quik-Shield 108	0.5 pcf	CCRR-1051	14	9	0.87	115	8.5	14
SWD Urethane	Quik-Shield 100X	0.5 pcf	CCRR-1050	18	12	1.1	89	7.25	11.25
SWD Urethane	Quik-Shield 112XC	2.0 pcf	CCRR-1011	14	9	0.87	115	5.5	9.5
SWD Urethane	Quik-Shield 118	2.0 pcf	CCRR-1093	14	9	0.87	115	5.5	9.5
The Spray Market	SPM-200	2.0 pcf	ESR-4195	14	9	0.87	115	7.5	11.5
ThermoSeal	CCX	2.0 pcf	ESR-4137	18	12	1.1	89	7.5	11.5
ThermoSeal	OCX	0.5 pcf	CCRR-1095	18	12	1.1	89	7.5	11.5
ThermoSeal	ONE	2.45 pcf	ER-603	20	13	1.3	80	5.5	9.5
ThermoSeal	TS 360	0.4 pcf	ER-603	20	13	1.3	80	8	14
ThermoSeal	TS 500	0.5 pcf	ER-603	18	12	1.1	89	8	14
ThermoSeal	TS 800	0.8 pcf	ER-603	20	13	1.1	89	8	14
ThermoSeal	5G	2.0 pcf	ER-698	14	9	0.87	115	5.5	9.5
UTC	7041 0.5 lb	0.5 pcf	ESR-3244	20	13	1.3	80	5.5	14.75
UTC	7040 0.5 lb	0.5 pcf	ESR-3244	20	13	1.3	80	5.5	14.75
Universal Polymers Corporation	UPC 500	0.5 pcf	CCRR-0358 ESR-3803	18	12	1.1	89	8.5	14
Universal Polymers Corporation	UPC 500 Max	0.5 pcf	CCRR-0358	21	14	1.3	76	8	14
Universal Polymers Corporation	UPC 1.7	1.7 pcf	CCRR-0345	16	11	1.0	100	8	12
Universal Polymers Corporation	UPC 2.0	2.0 pcf	CCRR-0345	18	12	1.1	89	8	12

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315				Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4] (mils)		Theoretical Application Rate [3]			
				Wet Film	Dry Film	(gallons/100 square feet)	sqft/gal	Vertical	Overhead
Universal Polymers Corporation	UPC 2.0 HL	2.0 pcf	CCRR-0345	18	12	1.1	89	8	12
Victory Polymers	VPC-50 NF	0.5 pcf	ESR-4657	18	12	1.1	89	7.5	11.5
Victory Polymers	VP-CC SuperLift	2.0 pcf	ESR-3824	14	9	0.87	115	7.5	11.5
Victory Polymers	VPC-CC SuperYield	2.0 pcf	ESR-3824	14	9	0.87	115	7.5	11.5
Victory Polymers	VPC-HFO	2.1 pcf	ESR-4491	14	9	0.87	115	7.5	11.5
XtremeSeal, LLC	XtremeSeal 0.4 LX	0.45 pcf	CCRR-1112	14	9	0.87	115	8.5	14

For SI: 1mil = 0.0254 mm, 1 inch = 25.4 mm, 1 pcf = 16.02 kg/m^3

Notes To Table 1

1. Approval of DC315 for use with any insulation product listed herein is conditional upon that insulation product's current approval for use with DC315. Users shall independently verify the current validity of any evaluation report referenced herein.
2. ER – Evaluation Reports from IAPMO Uniform Evaluation Service
   CCRR – Code Compliance Research Reports from Intertek.
   ESR – Evaluation Service Reports from ICC-ES.
   TER-Technical Evaluation Report from DrJ Engineering.
   BRYX – Foamed Plastic Listing from UL.
3. Theoretical coating application rates are based strictly on the average nominal thickness requirements and shall be increased for site-specific conditions such as foam plastic surface texture, overspray loss, container and other residues, application technique and environmental conditions.
4. Average nominal installed thickness shall be determined by taking measurements of the wet film thickness on the surface of the SPF or using medallions.. Measurements shall be made and recorded within 5 minutes of application. Two measurements shall be made at each location avoiding the thickest and thinnest spots to determine average nominal thickness. When medallions are used the medallion shall measure between 4 and 10 square inches with the smallest dimension being $1^3/_4$ inches. (Medallion size and number of measurements are based on Section 3.4.2 of AC456)

TABLE 2
Foam Plastic Products Approved for Use with DC315 as Assemblies Not Requiring a Prescriptive Ignition Barrier (All alternative ignition barrier assemblies shown below are based on testing to NFPA 286 as modified by Appendix X of AC 377)

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315			Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4] (mils)		Theoretical Application Rate per Gallon [3] (square feet)		
				Wet Film	Dry Film		Vertical	Overhead
Acme Urethanes	WC-.50	0.5 pcf	ER-605	4	3	400	8	14
BASF	Spraytite 158	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5
BASF	Enertite® G	0.5 pcf	CCRR-1032, ESR-3102	4	3	400	11.5	15.5
BASF	Enertite® IB-418	0.5 pcf	CCRR-1032, ESR-3102	4	3	400	11.5	15.5
BASF	Enertite® NM	0.5 pcf	CCRR-1032, ESR-3102	4	3	400	11.5	15.5
BASF	Spraytite 178	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5
BASF	Spraytite 81206	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5
BASF	Spraytite 81205	2.0 pcf	ESR-2642	4	3	400	5.5	11.5
BASF	Spraytite Comfort	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5
BASF	Spraytite Comfort Plus	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5
BASF	Spraytite LWP-L	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315			Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4] (mils)		Theoretical Application Rate per Gallon [3] (square feet)		
				Wet Film	Dry Film		Vertical	Overhead
BASF	Spraytite SP	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5
BASF	Walltite 200	2.0 pcf	ESR-2642	4	3	400	5.5	11.5
BASF	Walltite US	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5
BASF	Walltite US-N	2.0 pcf	ESR-2642	4	3	400	5.5	11.5
BASF	Walltite HP+	2.0 pcf	CCRR-1031, ESR-2642	4	3	400	5.5	11.5
BASF	Walltite HP+S	2.0 pcf	CCRR-1031	4	3	400	5.5	11.5
BASF	Walltite LWP	2.0 pcf	CCRR-1031	4	3	400	5.5	11.5
Barnhardt Manufacturing Company dba NCFI Polyurethanes	InsulStar Light 12-008	0.5 pcf	CCRR-0323	7	5	229	8	14
Carlisle Spray Foam Insulation	SealTite PRO No Mix	0.5 pcf	ER-616	4	3	400	12	12
Carlisle Spray Foam Insulation	SealTite PRO Open Cell	0.5 pcf	ER-624	4	3	400	9.5	11.5
Carlisle Spray Foam Insulation	SealTite PRO High Yield	0.5 pcf	ER-623	4	3	400	7.5	11.5
Carlisle Spray Foam Insulation	Sealtite™ PRO No Trim 21	0.75 pcf	ER-618	4	3	400	14	14
Carlisle Spray Foam Insulation	Foamsulate™ 50	0.5 pcf	ER-351	4	3	400	12	12
Carlisle Spray Foam Insulation	Foamsulate™ 50-HY	0.5 pcf	ER-540	4	3	400	9.5	11.5
Certainteed	CertaSpray X	0.5 pcf	ESR-3759	4	3	400	11.5	11.5
Creative Polymer Solutions	AccuFoam OC	0.5 pcf	ER-699	4	3	400	8	14
Creative Polymer Solutions	AccuFoam CC	0.5 pcf	ER-699	4	3	400	5.5	7.5
DAP Foam, Inc.	Touch 'n Seal Class 1 (LOW GWP)	2.0 pcf	ESR-3052	6	4	267	3.25	3.25
Demilec	Agribalance	0.6-0.8 pcf	ESR-2600	4	3	400	7.5	11.5
Demilec	Sealection 500	0.5 pcf	ESR-1172	4	3	400	7.5	11.5
Demilec	Sealection NM	0.5 pcf	ESR-2668	6	4	267	10	12
Gaco Western	EZSpray F4500	0.55 pcf	CCRR-1107	4	3	400	12	16
Gaco Western	Gaco Green 052N	0.5 pcf	CCRR-1075; ESR-2478	4	3	400	11.25	11.25
General Coatings	Ultra-Thane 050	0.5 pcf	CCRR-0358 ESR-3803	6	4	400	8.5	14
General Coatings	Ultra-Thane 050 MAX	0.5 pcf	CCRR-0358 ESR-3803	6	4	400	8.5	14
General Coatings	Ultra-Thane 170	1.7 pcf	CCRR-0345	4	3	400	8	12
General Coatings	Ultra-Thane 202	2.0 pcf	CCRR-0345	4	3	400	8	12
General Coatings	Ultra-Thane 202 High Lift	2.0 pcf	CCRR-0345	4	3	400	8	12
General Coatings	Ultra-Thane 230	2.0 pcf	ESR-3033	4	3	400	7.5	11.5
Icynene, Inc.	Classic Plus	0.7 pcf	ESR-1826	4	3	400	8	14
Icynene, Inc.	Classic	0.5 pcf	ESR-1826	4	3	400	5.5	11.25

Manufacturer's Name	Product Name	Product Density	Evaluation Report[1, 2]	Application of DC315			Maximum Thickness of Spray Foam (inches)	
				Average Nominal Installed Thickness[4] (mils)		Theoretical Application Rate per Gallon [3] (square feet)		
				Wet Film	Dry Film		Vertical	Overhead
Icynene, Inc.	Classic Ultra	0.5 pcf	ESR-1826	4	3	400	5.5	11.25
Icynene, Inc.	Classic Ultra Select	0.5 pcf	ESR-1826	4	3	400	5.5	11.25
Icynene, Inc.	MD-C-200	2.4 pcf	ESR-3199	4	3	400	7.5	9.5
Icynene, Inc.	No-Mix	0.5 pcf	CCRR-1123	4	3	400	5.5	11.5
Icynene, Inc	ProSeal	2.0 pcf	ESR-3500	4	3	400	8	14
Icynene, Inc	ProSeal LE	2.0 pcf	ESR-3500	4	3	400	8	14
Johns Manville	JM Corbond® III Performance Insulation	2.0 pcf	ER-146	4	3	400	7.5	11.5
LaPolla	FL500	0.5 pcf	ESR-2847	4	3	400	5.5	11.5
Lapolla Industries	FL2000-3G	2.4 pcf	ESR-4501	4	3	400	7.5	9.5
NCFI	Sealite	0.5 pcf	ESR-1154	4	3	400	12	14
Natural Polymers, LLC	Natural-Therm® Zero	1.9 pcf	ER-527	4	3	400	7.5	11.5
Patriot	200	2.0 pcf	ESR-4065	4	3	400	8	14
Patriot	500	0.5 pcf	ESR-4064	4	3	400	5.5	11.25
Patriot	500 HY	0.5 pcf	ESR-4064	4	3	400	5.5	11.25
PCC Prodex	Crossin 450	0.5 pcf	ER-785	4	3	400	8	14
Purinova	Purios 500	0.6 pcf	ESR-4165	4	3	400	6	14
Rhino Linings	ThermoGuard	0.5 pcf	ESR-2100	4	3	400	8	12
SES Foam, LLC	SES 0.5	0.5 pcf	ER-492	4	3	400	9.5	11.5
SWD Urethane	Quik-Shield 108	0.5 pcf	CCRR-1051	4	3	400	8	12
ThermoSeal	TS 360	0.4 pcf	ER-603	6	4	267	8.5	14
ThermoSeal	TS 500	0.5 pcf	ER-603	6	4	267	9.5	14
ThermoSeal	TS 800	0.8 pcf	ER-603	6	4	267	9.5	14
Universal Polymers Corporation	UPC 500	0.5 pcf	CCRR-0358 ESR-3803	6	4	267	8.5	14
Universal Polymers Corporation	UPC 500 MAX	0.5 pcf	CCRR-0358 ESR-3803	6	4	267	8.5	14
Universal Polymers Corporation	UPC 1.7	1.7 pcf	CCRR-0345	4	3	400	8	12
Universal Polymers Corporation	UPC 2.0	2.0 pcf	CCRR-0345	4	3	400	8	12
Universal Polymers Corporation	UPC 2.0 HL	2.0 pcf	CCRR-0345	4	3	400	8	12
Victory Polymers	VPC-50 OC	0.5 pcf	ER-674	4	3	400	12	12
Victory Polymers	VPC-50 NF	0.5 pcf	ESR-4657	6	4	267	10	12
XtremeSeal, LLC	XtremeSeal 0.4 LX	045 pcf	CCRR-1112	4	3	400	8	12

For SI: 1 mil = 0.0254 mm, 1 inch = 25.4 mm, 1 pcf = 16.02 kg/m^3

Notes to Table 2 (on next page)

Notes to Table 2:

1. Approval of DC315 for use with any insulation product listed herein is conditional upon that insulation products' current approval for use with DC315. Users shall independently verify the current validity of any evaluation report referenced herein.
2. ER – Evaluation Reports from IAPMO Uniform Evaluation Service
   CCRR – Code Compliance Research Reports from Intertek.
   ESR – Evaluation Service Reports from ICC-ES.
3. Theoretical coating application rates are based strictly on the average nominal thickness requirements and shall be increased for site-specific conditions such as foam plastic surface texture, overspray loss, container and other residues, application technique and environmental conditions.
4. Average nominal installed thickness shall be determined by taking measurements of the wet film thickness on the surface of the SPF or using medallions, Measurements shall be made and recorded within 5 minutes of application. Two measurements shall be made at each location avoiding the thickest and thinnest spots to determine average nominal thickness. When medallions are used the medallion shall measure between 4 and 10 square inches with the smallest dimension being $1^{3}/_{4}$ inches. (Medallion size and number of measurements are based on Section 3.4.2 of AC456)