



DC315 Intumescent Coating

Description

DC315 is an intumescent coating for Spray Polyurethane Foam (SPF) and provides an alternative 15 or 20 minute thermal barrier. Tested and compliant in the **USA by ICC-ES, AND Canada by CCMC**, DC315 is the most tested and approved alternative thermal barrier on the market today!

To be approved as an Alternative Barrier System, DC 315 is applied over a manufacturer's SPF and tested to the criteria of NFPA 286, UL 1715 or ISO-CAN/ULC 9705 for duration of 15-20 minutes by an accredited fire testing facility. DC 315 has also been tested as an ignition barrier under **AC 377 Appendix X**. DC315 is fully **AC456 Compliant** and satisfies the International Building Code (IBC) International Residential Code (IRC) National Building Code of Canada (NBCC) and many other International model building codes.

Properties	Value
Finish	Flat
Color	Ice Grey
V.O.C.	47g/L
Solids By Volume	67%
Specific Gravity	1.30+/-0.05 g/cc
Drying Time	@77° F & 50% R.H. – To touch 1 – 2 hours, to recoat if required 2 to 4 hours
Flash Point	None
Reducing or Cleaning	Water
Shelf Life	1 year from date of manufacture in unopened containers and stored at 10° C to 27° C (50° F to 80° F)
5 Gal. Container Weight	58 lbs.

DC315 Tested Solutions for Spray Polyurethane Foam

- More full scale Thermal and Ignition Barrier tests than any other product in the world
- DC 315 - 3rd. party inspected for Quality Control: Warnock Hersey Intertek W/N 20947
- Tested useful life, fire resistant property is not compromised after 50 years
- Top coat for color, weather & moisture protection, tested, via NFPA 286 full scale testing
- ANSI 51 testing for incidental food contact
- Passed CAL 1350 - qualify DC 315 as a low-emitting material in the Collaborative for High Performance Schools rating system (CHPS Designed & CHPS Verified)
- Passed strict EPA – V.O.C. and AQMD air emission requirements (for all 50 states)
- 3rd Party tested "Single Coat Coverage" up to 24 Mills WFT, on ceilings and walls, reducing labor costs equaling higher profits
- Meets Life Safety Code 101
- Meets LEED's point



Specifications

Finish:	Flat
Color:	Ice Gray, White and Dark Grey are special order
V.O.C.:	(47 g/l)
Volume Solids:	67%
Drying Time	@ 77°F & 50% RH To touch 1-2 hours to recoat 2 to 4 hours
Type of Cure:	Coalescence
Flash Point:	None
Reducer/Cleaner:	Water
Shelf Life:	1 year (unopened)
Packaging:	5 & 55 gallon containers
Shipping weight:	5 gallon pail - 58 lbs. 55 gallon drum - 640 lbs.
Application:	Brush, roller, conventional and airless spray
Performance:	50+ years HOAC tested



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DC 315 is the most tested and approved product in the world for use as an **"Alternative Thermal Barrier Coating System"** over Spray Polyurethane Foam (SPF).

Visit us at our website www.painttoprotect.com to obtain a current matrix of all the manufacturer's foams DC 315 has been tested and approved as Thermal or Ignition barriers in compliance with current IBC codes.

If a coating has not passed a full scale test on a manufacturer's foam it cannot be used on that foam; there are no exceptions in the IBC Code!

International Building Code Fire Performance Requirements for SPF: The International Building Code (IBC) mandates that SPF be separated from the interior of the building by a 15-minute thermal barrier, or other approved covering. DC 315 passed certified NFPA 286 and UL 1715 test over a variety of open and closed cell spray applied urethane foams that were conducted by IAS certified testing facilities. All tests performed comply with the requirements of 2009 IBC Section 803.1.2, and Section 2603.9; 2012 IBC Section 803.1.2 and Section 2603.10 under "Special Approvals for Thermal Barriers over Foam Plastics".

Alternative Ignition Barrier Assemblies DC 315 meets the requirements for ignition barrier per **AC 377, Appendix X.**

National Building Code of Canada Alternative Thermal Barrier Assemblies (e.g. Exposed SPF or SPF with a Thermal Barrier Protective Covering) DC315 prevents flashover for 10 minutes for Combustible Construction or 20 minutes for Non-Combustible construction when tested to the CAN/ULC 9705 Standard. Ensure application thickness is applied according to building type.

Application Equipment

DC 315 can be applied by brush, roller or airless sprayer. For maximum yield and coverage spray application is recommended.

Pump:	(Graco) UltraMax 795 or equivalent
PSI:	3000
GPM:	1.1
Tip:	517 - 523 or equivalent.
Filter:	Removal from the machine and gun is required
Hose:	3/8" diameter airless spray line for the first 100' from pump and 1/4" x 3' whip

Pump:	(Graco) TexSpray Mark 5 or equivalent
PSI:	3300
GPM:	1.35
Tip:	517 - 523 or equivalent.
Filter:	Removal from the machine and gun is required
Hose:	3/8" diameter airless spray line for the first 100' from pump and 1/4" x 3' whip
Pump:	(Graco) GMAX 7900 or equivalent
PSI:	3300
GPM:	2.2
Tip:	517 - 529 or equivalent.
Filter:	Removal from the machine and gun is required
Hose:	1/2" diameter airless spray line for the first 100' 300' from pump and 1/4" x 3' whip
Pump:	(Graco) GH 833 or equivalent
PSI:	4000
GPM:	4.0
Tip:	517 - 529 or equivalent.
Filter:	Removal from the machine and gun is required
Hose:	1/2" diameter airless spray line for the first 100'-300' from pump and 1/4" x 3' whip

Testing

ASTM E84 - Flame Spread 0 Smoke 10

**CAN/ULC S102 FSR 23 SDC 145 -
(tested as a system over SPF)**

UL 1715, NFPA 286 - over 140 test passed

CAN/ULC S 101 - 25 minutes as a system over SPF

CAN/ULC 9705 10 and 20 minute assembly testing

WH Listed - Spec ID 32890

End Use Applications: DC315 is for interior use as a thermal or ignition barrier coating to protect SPF. Contact IFTI for instruction for using DC315 in other applications such as, but not limited to, cold storage, parking garages, high humidity, or any unconditioned spaces.



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