



ICC-ES ESR-3702 Verifies that DC315 Meets Code Requirements [Click here to view Report](#)



**AC 456 CCRR Compliant Report (Click here for report)** DC 315 applied over Spray Polyurethane Foam (SPF), is an Alternative Barrier System in "Section 2603.9 Special Approval" as a thermal barrier. To be approved as an Alternative Barrier System, DC 315 is applied over a manufacturer's SPF and tested to the criteria of an NFPA 286, UL 1715, UL 1040, or FM 4880 for duration of 15 minutes by an accredited fire testing facility. Products that pass an ignition barrier tested under

**AC 377 Appendix X are not appropriate alternative thermal barriers and cannot be used.** Depending on your particular application, either ignition or thermal barriers are required by the International Building Code (IBC).

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.

### Advantages of Using DC315 SPF

- DC 315 is the only 3<sup>rd</sup> party inspected fire protective coating for SPF
- Marked and Listed by Warnock Hersey Intertek W/N 20947
- Single coat coverage reducing labor and material costs equaling higher profits
- Industry leading spread rate
- Passed CAL 1350 - safe for use in schools and high occupancy buildings
- Passed strict EPA – V.O.C. and AQMD air emission requirements (for all 50 states)
- Approved for Incidental Food Contact complies with NSF/ANS1-51 requirements of USDA
- Easily applied with a sprayer, roller, or brush with no complicated mixing
- 1 year shelf life
- Fast and easy clean-up, with no waste and fast turnaround time
- Compatible with any paintable construction material
- Meets Life Safety Code 101
- Meets LEED's point requirements
- No formaldehyde

**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](http://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!**

### 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 ISA certified testing facilities. All tests performed comply with the requirements of 2006 IBC Section 803.2.1 & 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". DC315 is WHI marked and certified via 3<sup>rd</sup> party inspection for quality assurance and consistency.

**Alternative 15 min Thermal Barrier Assemblies** (e.g. Exposed SPF or SPF with a Thermal Barrier Protective Covering)

The assembly must remain in place for 15 minutes during specified large-scale fire tests, such as NFPA 286, UL 1715, UL 1040, or FM 4880.

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

### Application Equipment

DC 315 can be applied by brush, roller or airless sprayer.

For maximum yield and coverage spray application is recommended.

### Sprayers:

Pump:	(Graco) UltraMax 695 or equivalent
PSI:	3000
GPM:	1.00
Tip:	517 - 521 or equivalent.
Filter:	30 mesh, removal of filter is recommend from gun and machine
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:	30 mesh, removal of filter is recommend from gun and machine
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:	30 mesh, removal of filter is recommend from gun and machine
Hose:	3/8" 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:	30 mesh, removal of filter is recommend from gun and machine
Hose:	3/8" diameter airless spray line for the first 100'-300' from pump and 1/4" x 3' whip

**Prior to Applying DC 315 to Ensure Proper Adhesion:** Surfaces must be clean, dry and free of all foreign matter. Adhesion of a coating to SPF requires the foam surface to have a slight profile or texture similar to an orange peel. Smooth or glossy foam surfaces must be flash coated with a light 3 - 4 mils Wet Film Thickness (WFT) of DC 315 and allowed to dry before applying the full application. Flash coating is a quick burst of a primer or DC 315, via airless sprayer over an area needing treatment. We also recommend flash coating around all pipes and air ducts.

### Product Application

**In order to validate warranty and confirm the installation complies with IFTI's best practices installer must obtain and read all current installation documents. Installation documents include Application Guide, Ventilation Guide and Job Work Report.**

**These documents can be downloaded at [www.painttoprotect.com](http://www.painttoprotect.com) or by calling IFTI at 949.975.8588.** "Job Work Records are an excellent way to track your installations and confirm compliance to your Building Official or Authority Having Jurisdiction. In the event of a concern on a job the installer is able to provide documented proof of the installation, for this reason IFTI recommends using these forms for all thermal barrier jobs."

### Material Preparation

DC315 must be thoroughly mixed prior to application. Failure to do so will compromise the materials performance and may create issues with equipment used for the application of the product. Mechanical stirring with a high speed drill and a paddle appropriate for the container size is recommended. Material should be stirred from the bottom up making sure the bottom and sides are scraped with a paint stick during the mixing process to ensure all materials are completely mixed prior to the application. Material should be mixed to a creamy consistency with no lumps. Thinning is not usually needed, but if the material has been exposed to prolonged periods of high temperatures during storage, evaporation of the water based material may have taken place. Typically the liquid level should be about 3 inches from the top of the 5 gallon pail. If the level of material is lower, water may be added during the mixing to address this issue.

### Temperature and Humidity

Ensure temperature and humidity are within specified limits for application. Failure to monitor and compensate for increased humidity may lead to blistering and/or delamination and will void warranty. Obtain a ventilation guide prior to commencing installation. **Ideal conditions are 16°C-32°C (62°F to 90°F) and a maximum of 65% Relative Humidity.**

### Ventilation

When spraying in enclosed spaces, regardless of size, adequate ventilation is required to remove excess moisture from the application area. The use of fans may be required in some cases to ensure a minimum of 0.3 air changes per hour. **Prior to starting a job please be sure to download a complete current ventilation guide at [www.painttoprotect.com](http://www.painttoprotect.com)**

### General Safety, Toxicity, Health Data

Material Safety Data Sheets are available on this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. In case of emergency contact CHEMTREC EMERGENCY NUMBER at 800-424-9300.

**WARNING: Do not allow product to freeze. Store above 10°C (50°F) at all times.**

**WARNING:** Avoid eye contact with the liquid or spray mist. Applicators should wear protective clothes, gloves and use protective cream on face, hands and other exposed areas.

#### EYE PROTECTION:

Safety glasses, goggles, or a face shield are recommended.

#### SKIN PROTECTION:

Chemical resistant gloves are recommended, cover as much of the exposed skin area as possible with appropriate clothing.

#### RESPIRATORY PROTECTION is MANDATORY!

Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application.

**INGESTION:** Do not take internally.

Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

#### Limited Warranty

This product will perform as tested if applied and maintained according to our directions, instructions and techniques. If this product is found to be defective upon inspection by its representative, the seller will, at its option, either furnish an equivalent amount of new product or refund the purchase price to the original purchaser of this product. Seller will not be liable for any representations made by any retail seller or applicator of the product. THIS WARRANTY EXCLUDES (1) LABOR OR COST OF LABOR FOR THE APPLICATION OR REMOVAL OF THIS PRODUCT OR ANY OTHER PRODUCT, THE REPAIR OR REPLACEMENT OF ANY SUBSTRATE TO WHICH THE PRODUCT IS APPLIED OR THE APPLICATION OF REPLACEMENT PRODUCT, (2) ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. OTHER LIMITATIONS APPLY. For the complete terms of the limited warranty, go to [www.painttoprotect.com](http://www.painttoprotect.com). Some states/provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you. To make a warranty claim, write to Technical Service, International Fireproof Technology, Inc., 17528 Von Karman Avenue, Irvine, CA 92614 or email Customer Service at [ptp@painttoprotect.com](mailto:ptp@painttoprotect.com)

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**Job Work Record Should be Filled Out For Each and Every Job. Completed Work Records Must be Submitted To [workrecords@painttoprotect.com](mailto:workrecords@painttoprotect.com) Within 10 Days of Job Completion.**