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DC315: Your one step solution for Polyurethane Foam "15 Minute Thermal Barrier" and "Ignition Barrier" ratings.

DC315 is a Certified Warnock Hersey listed and rated product which has passed certified testing for both the **(UL-1715) 15 minute Thermal Barrier** and the **NFPA 286 (AC-377 standards) as an Ignition Barrier**.

What is truly amazing about **DC315**, it applies as easy as regular latex paint and being a water base cleans up in a snap. Using DC315 will satisfy code compliance on"15 Minute Thermal Barriers" and "Ignition Barriers" on your next foam job means: applied to satisfy code compliance on"15 Minute Thermal Barriers" and "Ignition Barriers" on your next foam job means:

- ✓ **Large single coat spread rate**
- ✓ **UL 1715 Thermal Barrier**
  - o (88.88 sq. ft./gal @ 18 mils wet and 12 mils dry) coverage rate of 1.136 gallons (4.3 L) per 100 square feet (9.3 m^2)
- ✓ **NFPA 286 (AC377) Attic Crawl Space Ignition Barrier**
  - o (130 sq. ft./gal @ 12 mils wet 8 mils dry) coverage rate of .77 gallons (2.9 L) per 100 square feet (9.3 m^2)
- ✓ **Reduced labor cost, reduced material cost and higher profits**
- ✓ **Fast turnaround time**
- ✓ **Easily applied with a sprayer, brush or roller**
- ✓ **No complicated mixing- just stir the paint before application**
- ✓ **No waste**
- ✓ **Fast and easy clean up of our water based latex product, tools & equipment**
- ✓ **Will not gum up or block spray equipment**
- ✓ **Passed strict EPA – VOC and AMQD tests**
- ✓ **Non Toxic, Low Vapors, Low VOCs**
- ✓ **Two year shelf life**
- ✓ **Certified Code Compliant Coating**

RECOMMENDED USES: This product is designed for use on interior polyurethane foam surfaces

USED BY: Schools, Colleges, Nursing Homes, Child Care Centers, Hospitals, Penal Institutions, Apartments, Hotels, Factories, Warehouses, Retail Stores, Restaurants, Utilities, Railroad and other Transportation Companies, Oil and Chemical Installations, Military Installations, and other facilities where fire retardant coatings are required.

PRECAUTIONS: Adequate ventilation must be provided during and after application until the coating has dried. Avoid breathing vapors or spray mist. Close container after use.

Read MSDS before opening containers.

SURFACE PREPARATION: Can be applied directly to fully cured polyurethane foam surfaces. All surface preparation should be carried out in accordance with good painting practices. Remove all loose, peeling or powdery existing paint from the surface. All dirt, grease, oil, wax, and other foreign matter MUST be removed with a detergent, rinse surface thoroughly with clear water, and allow drying.

Application Equipment: DC315 can be applied by brush, roller or airless sprayer.
Brushing: Use top quality polyester/nylon blend brushes such as those supplied by Purdy, Wooster, or equivalent.
Rolling: 3/8" polyester blend nap roller covers generally work well.

Spraying: Pump: (Graco) for best results use Graco 795 airless sprayer, with a minimum 2000 PSI

- Tip: 015 - 021, or equivalent.
- Filter: 100 mesh
- Hose: Use minimum size of 3/8" airless spray line for the first 50' from pump.

Airless Spray:

- Fluid Pressure: .....2000 PSI or higher
- Strainer: .....100 Mesh
- Fluid Hose: .....3/8 diameter with a ¼" whip
- Tip: .....017 - .021

Conventional Spray

- Air Supply…….. 12 CFM, 50 psi at nozzle,
- Fluid…….. 15-20 psi
- Gun. .....Graco 217-800 to 217-816
- Type ……External Mix
- Reduction ……..Up to 7%

APPLICATION: Stir thoroughly and apply WFT per test.
Do not apply in temperatures below 50ºF (10ºC).

CHARACTERISTICS:

Finish ……Flat
Color ……Off-White
Spreading Rate ……For 15 minute Thermal Barrier (88.88 sq. ft./gal @ 18 mil wet and 12 mils Dry) coverage rate of 1.136 gallons (4.3 L) per 100 square feet (9.3 m^2)
Spreading Rate ……For AC377 Attic Crawl Space (130 sq. ft./gal @ 12 mil wet 8 mils Dry) coverage rate of .77 gallons (2.9 L) per 100 square feet (9.3 m^2)
V.O.C. …….. (47 g/l)
Volume Solids ……65%

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 ……2 years (unopened)
Packaging .……1&5 gal. Containers
Shipping weight ……1 gal - 13 lbs
5 gals - 58 lbs
Application ……Brush, roller, conventional and airless spray

FIRE HAZARD CLASSIFICATION:

DC315 is a certified Warnock Hersey listing and meets all requirements UL1715 15 Minute Thermal Barrier of ICC-ES and NFPA 286 new AC 377 criteria. DC315 passed UL 723 at 0 flame spread index and 10 smoke developed index. DC 315 has done multiple testing and passed multiple foams on all tests. The rooms for the UL 1715 Bay Systems wall insulation to the UL 1715 test room on the back wall, right wall, and ceiling. The walls and ceiling were sprayed with 6 inches of foam. The assembly was made up of 20 gauge metal studs spaced 24 inches oc then 5/8 type X gypsum wallboard was screwed on the inside of the studs. The rooms for the NFPA 286 consisted of three walls with 2x12 studs, 24 inches o.c. and 2x16 joists, 24 inches o.c. with a ½ inch gypsum wall board. The final interior dimensions were 8 feet high, 8 feet wide and 12 feet deep. Ceiling joists ran parallel to the short dimension of the room. The corner was constructed such that two studs met at their edges, forming a 90° angle. The spray foam was applied in the stud cavities to a maximum thickness of 12 inches on the walls and 16 inches on the ceiling

Material Safety Data Sheet – DC315

1. Product and Company Identification

Product: ..... Water based fireproof paint
Product Code: DC315
Company: ..... International Fireproof Technology Inc.

2. Composition/Information on Ingredients

Ingredient:	CAS No.	Percent
Ammonium Polyphosphate:	68333799	25-45 %
Melamine:	1008781	10-25 %
Pentaery thritol:	115775	10-25 %
PVAC Resin:	9003-20-7	5-30 %
Titanium Oxide:	13463-67-7	5-10 %
Water:		20-40 %

3. Hazards Identification

Hmis Hazard Classification

Toxicity: 0
Flammable: 0
Reactivity: 0
Personal Protection: ..... B
Scale Low: 1
Moderate: 2
High: 3
Extreme: 4
Emergency Overview: ..... None
Potential Health Effects: ..... None
General: ..... No Danger
Inhalation: ..... It may result in irritation of throat and lungs if inhaling.
Ingestion: ..... None
Skin Contact: ..... Direct skin contact doesn't cause skin irritation or dermatitis.
Eye Contact: ..... May cause irritation upon direct contact.

4. First Aid Measures

Inhalation: ..... None
Ingestion: ..... Seek medical attention or drinking amounts of water immediately.
Skin Contact: ..... Wash with soap and water
Eye Contact: ..... Flush with water. Consult a physician if necessary.
Note to Physician: ..... None

5. Fire Fighting Measures

Fire: ..... None-Flaming
Explosion: ..... Not considered to be an explosion hazard.
Fire Extinguishing Media: ..... None-Flaming
Special Information: ..... None

6. Accidental Release Measures

Steps to be taken in case of spill or leak

Maintain adequate ventilation: ..... Prevent runoff to sewers. Use sand or other material to dam or contain spill. Soak up with an inert absorbent. Store in a closed container until disposal.

7. Handling and Storage

Handling:	Keep containers tightly closed.
Storage:	Period ≤ 24 months
Special Comments:	Store between 5°C - 35°C in a closed container in a protected area.Wash hands thoroughly with soap and water after handling as a standard hygienic practice.

8. Exposure Controls / Personal Protection

Airborne Exposure Limits:	None
Ventilation:	A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
Personal Respirators:	Wear dust mask during work.
Skin Protection:	It is good to use protective gloves.
Eye Protection:	Wear goggles to avoid splash.

9. Physical and Chemical Properties

Appearance:	White liquid
Odor:	Odorless
Data relevant to safety:	None
Changes in physical state:	Temperature > 60°C; after the pail is opened.
Flash point:	Not applicable
Ignition temperature:	Not applicable
Self-ignition temperature:	Not applicable
Color:	White; also available in standard color range
Particle size:	< 45 µ m
Solid Content:	Above 65%
Density:	1.30 ± 0.05
Viscosity:	> 80 KU (at 25°C)
pH:	7.0 ± 1.0
Thinner:	Water
Storage Temperature:	5°C - 35°C

10. Stability and Reactivity

Stability:	Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products:	Ammonium gas. Vinyl monomers if the temperature is higher than 45°C.
Hazardous Polymerization:	Should not occur.
Incompatibilities:	Evolution of ammonia under high temperature.
Conditions to Avoid:	High temperature condition (> 45°C)

11. Toxicological Information

Acute oral toxicity (LD50):	None
Irritant effect on skin:	None
Irritant effect on eyes:	Slightly irritant
Duration of exposure:	24 hours

12. Ecological Information

Ecological effect: ..... Fish toxicity (LC50): ..... None

Environmental Fate: ..... When released into the soil, this material is not expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is not expected to evaporate significantly.

13. Disposal Considerations

Dispose waste by sanitary landfill or incineration in accordance with appropriate regulations.

14. Transport Information

Shipping Name: ..... Product Name: Fireproof Paint

Product Code: DC315

Size: ..... 1 Gallon or 5 Gallon by plastic bucket.

Road transport: ..... Non-hazardous goods

Inland waterways transport: ..... Non-hazardous goods

Marine transport: ..... Non-hazardous goods

Air transport: ..... Non-hazardous goods

Dispatch by post: ..... Permitted

15. Regulatory Information

Health hazardous goods: ..... NO

Environmental hazardous goods: ..... NO

Fire hazardous goods: ..... NO

16. Other Information

Hazard Warning: ..... None

Cautions: ..... Avoid contact with eyes. Use with adequate ventilation. Wash thoroughly after handling.

Label First Aid: ..... Assist person to understand and exactly avail the materials.

Product Use: ..... Fireproof Paint

Remark: ..... This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.