



International Fireproof Technology, Inc.

17528 Von Karman Ave. Irvine, CA 92614

PRODUCT NAME

DC 315 Fireproof Paint, Paint to Protect™

MANUFACTURER

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Surface Preparation:

All surfaces to be painted must be clean, cured, firm, dry and free of dust, dirt, oil, wax, grease, mildew, and efflorescence. The quality of any paint job is only as good as the surface preparation that precedes the paint application. Our coating has excellent bonding characteristics and will adhere to most sound, clean, foam surfaces. Make sure the surface of the foam is free of gouges, holes, exposed cells, and that the surface is stable and not crumbling or deteriorated. If any such defects are found, repair them prior to proceeding.

Mildew: should be removed by scrubbing with a 25% solution of household bleach water. Tri-sodium phosphate (TSP) or common laundry powder such as Tide may be added to solution to assist removal.

Efflorescence: is a white powdery alkaline crystal growth sometimes found on plaster or masonry walls. It is a condition caused by excessive moisture in the walls forcing alkaline salts to the surface of the wall. Efflorescence must be removed and neutralized with an acidic solution (white vinegar works well).

Caution: The presence of efflorescence indicates that a moisture problem has occurred behind the wall at some point in time. If the source of excessive moisture is not corrected, the efflorescence will return and push any coating, including ours, off the wall.



Material Preparation:

- DC315 Fireproof Paint **must** be thoroughly mixed before application. Failure to do so will seriously compromise our coating's ability to perform. We recommend mechanical stirring with a high speed drill and a paddle appropriate for the size container you are working from. Contents should be stirred from the bottom up, making sure to scrape the bottom and sides with a paint stick as you go. Contents should be stirred to a creamy consistency with no lumps. Thinning is usually not needed. If paint has been exposed to high heat, water may evaporate from the plastic 5 gallon container. If the paint level is below 3 inches from the top of the container, add enough water to bring the level back up to within 3 inches from the top in order to ensure proper consistency.
- DC315 is a water based product and slight thinning will not hurt the product, however, thinning increases the likelihood of not applying the proper thickness of paint, thus diminishing our product's fire proofing ability. Ultimately, it is your responsibility to make sure that the proper thickness of material has been applied so our product can do its job. Except for tinting with universal paint tint, never mix our product with other materials.

Foam (see individual test reports for various thicknesses)

- **UL 1715** - Thermal Barrier.
- **NFPA-286** - Contribution to Room Combustibility.



Application Equipment:

DC 315 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:

Airless Spray: Electric

- Pump: (Graco) TexSpray Mark 4 or equivalent
- GSM: 1.25
- Tip: 524 - 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' from pump and 1/4" x 3' whip

- Pump: (Graco) TexSpray Mark 5 or equivalent
- PSI: 3300
- GPM: 1.35
- Tip: 524 - 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' from pump and 1/4" x 3' whip

Airless Spray: Gas

- Pump: (Graco) GMAX 7900 or equivalent
- PSI: 3300
- Max GPM: 2.2
- Tip: 524 - 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
- Max GPM: 4.0
- Tip: 524 - 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

See test data for recommendations of mil thickness, or call the manufacturer for technical assistance.

Application Temperatures:

Temperature of substrate and application must be 50° F and rising. 68° to 90° F are recommended temperatures for applying. Do not apply if temperature will fall below 50° within two hours of application. It is the sole responsibility of the applicator to ensure that DC 315 has been applied in accordance with the application directions. Application should not proceed if surface or air temperatures exceed 90° F.

Workmanship:

General:

Apply DC 315 fireproof paint according to manufacturer's written instructions. Use applicators and techniques best suited to the type of foam being applied. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable paint film. Paint surfaces behind movable equipment and furniture the same as similar exposed surfaces.

Coverage:

Check Test report for square feet per gallon and mil thickness. Example at a rate of approximately 20 wet mils @ 80 square feet per gallon application. Dry film thickness (DFT) will be approximately 13 mils. The final (DFT) will vary and depends on the substrate of the specific assemblies.

Curing time: 7-11 Days



Cleanup:

- At the end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- After completing painting, clean glass and paint-spattered surfaces.
- Remove spattered paint by proper methods. Be careful not to scratch or otherwise damage adjacent finished surfaces.
- Provide "Wet Paint" signs to protect newly painted finishes.
- After completing painting, remove temporary protective wrappings provided by others to protect their work.

Health & Safety

- All work carried out under this specification shall be in tradesman-like manner, with due regard to prevention of contamination of the site and associated work.
- Appropriate steps are to be taken to protect the health and safety of any person who has reason to be on the site.
- Refer to the governing Health and Safety regulations and minimize the hazards on site by using the proper trade approved equipment and techniques. Ensure supply and appropriate use of protective clothing and equipment.
- **Lead:** Existing coatings may contain lead. Test surfaces accordingly. All necessary precautions must be taken with existing painted surfaces that contain lead.
- **Asbestos:** Contractors need to comply with local regulations and guidelines before commencing any work on surfaces and substrates that may contain asbestos.
- Avoid contact with skin and eyes and avoid breathing of vapors and spray mist. Wear eye protection, dust mask and protective clothing when using. Open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches, or dizziness, seek fresh air immediately. Wash thoroughly after handling. Close container after each use.

FIRST AID

- If swallowed, drink large amounts of water and get medical attention immediately.
- In case of eye contact flush with plenty of water and consult a physician immediately.

Check List Before You Start

- **Temperature** Is temperature within limits (68° to 90° F)?
- **Humidity** Is the relative humidity less than 85%?
- **Consistency** Are the contents thoroughly mixed?
- **Surface** Are all substrates clean, dry and sound?
- **Measurement** Wet film gauge on site?
- **Safety** Are Health and Safety checks complete?
- **Need help** Call 949.975.8588
- Correct spray tips –525 thru 529
- Airless sprayer with minimum 1.25 GPM
- Electrical power and at minimum 12 gauge extension cord
- 30 mesh machine & gun (if applicable) filters
- Power drill & mixer of appropriate size
- Drop cloths or poly sheeting
- Disposable gloves, mask, protective eyewear
- Clean metal flashing or equivalent for spray (or clean metal flashing)
- Portable fans to speed drying
- Space heaters as required to create conditioned space (=>68°f)
- Disposable paint brushes
- Work lights for tight areas
- Scaffolding (as required)
- Clean-up rags
- 2 five gallon pails for clean-up
- Dish detergent for clean-up 1-2 oz.

Wet Mil and Dry Mil:

During Application, the wet film thickness should be checked using a wet film thickness gauge. To use the gauge insert the teeth into the wet DC 315 wet base coat, the last tooth to be coated indicates the thickness achieved. This is very important so you can achieve the required dry film thickness (DFT) of the specific assembly. During the drying process, DC 315 will shrink due to evaporation.

Below Wet Mil Film (WFT) and a Dry Mil Film (DFT) Chart when using DC 315

WET MIL FILM THICKNESS (WFT) BUILD CHART

- 5 Gal @ 8 Mils covers 1000 square feet @ 200 square feet per gallon
- 5 Gal @ 18 Mils covers 450 square feet @ 90 square feet per gallon
- 5 Gal @ 20 Mils covers 400 square feet @ 80 square feet per gallon
- 5 Gal @ 22 Mils covers 365 square feet @ 73 square feet per gallon

DRY MIL FILM THICKNESS (DFT) BUILD CHART

- 5 Gal @ 5 Mils covers 1000 square feet @ 200 square feet per gallon
- 5 Gal @ 12 Mils covers 450 square feet @ 90 square feet per gallon
- 5 Gal @ 13 Mils covers 400 square feet @ 80 square feet per gallon
- 5 Gal @ 15 Mils covers 365 square feet @ 73 square feet per gallon

Loss Factor

For actual coverage rates, allowances must be made for such factors as surface irregularities, anchor pattern, film thickness, variance, loss, overspray, and incomplete usage. The following factors have been found in actual use to be reasonable estimates of the loss factors which can be expected:

- Brush Application _____ 3-5%
- Roller Application _____ 4-6%
- Spray Application _____ 5-7%