

# DC-315

# FIRE-LOK

## THERMAL BARRIER

### Product Design

LAPOLLA FIRE-LOK is a single component, single application, spray or roller applied protective coating for use in Ignition Barrier and Thermal Barrier applications in combination with spray applied urethane foam insulations manufactured by Lapolla Industries, Inc. DC315 is a Certified Warnock Hersey listed and rated product which has passed certified testing for the **NFPA-286 Thermal Barrier and the Modified NFPA 286 for spray Ignition Barrier testing per AC 377 Appendix X.**

### Product Use

Currently FIRE-LOK is approved for use as a Thermal Barrier over Lapolla Industries, Inc. FL-2000 4G and Air-Tight CC 2.0 pound closed cell insulation systems at a rate of 18 wet mils or 1.125 gallons per 100 square feet. FIRE-LOK is also approved for use as either a Thermal Barrier or Ignition Barrier with FOAM-LOK FL-500 or Airtight OC. When these products are applied at a thickness of 5 1/2 inches on the walls and 11 1/4 inches on the ceilings maximum, the FIRE-LOK must be applied at a rate of 20 wet mils (1.25 gallons per 100 square feet) to meet the Thermal Barrier requirements of the NFPA 286 and 4 wet mils (1/4 gallon per 100 square feet) to meet the Ignition Barrier requirements per AC 377 appendix X.

FIRE-LOK has a spread rate of 400 sq. ft. per gallon as an ignition barrier over Lapolla .5 lb. foam, and 80 sq. ft. / gal as a 15 minute thermal barrier over Lapolla .5 lb. foam. Over Lapolla FL 2000 foam, FIRE-LOK has a yield of 73 sq. ft. and over FL 2000-4G foam, a yield of 88 sq. ft. per gallon when used as a thermal barrier.

### Application Requirements for Thermal and Ignition Barriers

FIRE-LOK	Wet mils	Dry mils	Coverage Rate
<b>Thermal Barrier</b> FL 2000/AT CC	22	14	73 sq. ft. per gal
<b>Thermal Barrier</b> FL 500/ AT OC	20	13	80 sq. ft. per gal
<b>Ignition Barrier</b> FL 500/ AT OC	4	3	400 sq. ft. per gal
<b>Thermal Barrier</b> FL 2000 4G	18	12	88 sq. ft. per gal

### Physical Properties

Properties	Value
<b>Finish</b>	Flat
<b>Color</b>	Off-White
<b>V.O.C.</b>	47g/L
<b>Solids By Volume</b>	65%
<b>Specific Gravity</b>	1.30+/-0.05 g/cc
<b>Drying Time</b>	@77°F & 50% R.H. – To touch 1 – 2 hours, to recoat if required 2 to 4 hours
<b>Flash Point</b>	None
<b>Reducing or Cleaning Agent</b>	Water
<b>Shelf Life</b>	2 years from date of manufacture in unopened containers and stored at 5°C to 35°C (40°F to 95°F)
<b>5 Gal. Container Weight</b>	58 lbs.
<b>55 Gal. Container Weight</b>	670 lbs.

### Product Credentials/Characteristics

- NFPA-286 Approved
- Passed strict EPA – VOC and AMQD tests
- Non Toxic, Low Vapors, Low VOCs
- Two year shelf life
- For Thermal Barrier testing per NFPA 286 and Ignition Barrier testing per AC377 appendix X.
- CAL-1350

### Product Application

Stir thoroughly and apply wet film thickness per specific test reports. Do not apply at temperatures below 50°F.

### Application Equipment

FIRE-LOK 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 when applying FIRE-LOK by roller.

### Spraying:

Airless Spray:	Electric
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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
GSM:	1.25
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
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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



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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

**FIRE-LOK DC-315** is a **Class I** formulation, as Tested per ASTM E-84, and at a thickness of .26 inches possesses the flammability characteristics shown below:

ASTM Method E84	Class I
Flame Spread	≤0
Smoke Development	≤10

### Surface Preparation

Surfaces must be clean, dry and free of all foreign matter.

### Material Preparation

FIRE-LOK 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.

Although this material poses no danger with regard to health and safety, gloves, goggles and a particle mask should be used during the application of the material. The area should also be well ventilated to remove any odors that may be irritating to the applicator or his customer.

### General Safety, Toxicity, Health Data

Safety Data Sheets are available on this coating material. Any individual who may come in contact with these products should read and understand the S.D.S. In case of emergency contact **CARECHEM EMERGENCY NUMBER** at (866) 928-0789.

**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.

**CLEAN UP:** Water

**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. Contact Lapolla for a copy of the Model Respiratory Protection Program developed by API.

**INGESTION:** Do not take internally.

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

### Disclaimer

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