FlameControl
Fire Retardant Coatings

FLAME CONTROL NO. 60-60A

15 Minute Thermal Barrier on Spray Polyurethane Foam
A Low VOC, Water Based Product

Product Description:

Flame Control No. 60-60A has met the criteria for use as a 15-minute thermal barrier on Spray Polyurethane Foam (SPF). No. 60-60A is a low VOC, water-based intumescent coating that dries to a flat finish.

No. 60-60A was subjected to flammability testing per NFPA 286 and successfully met the criteria listed in the 2012, 2015, and 2018 International Building Code (IBC) and International Residential Code (IRC)

Flame Control No. 60-60A is approved for use as an alternative thermal barrier per IBC Section 2603.9/IRC R316.6

Evaluation Report: **IAPMO ER 596** **ICC-ES ESR-5614** **Section: 09 96 43 – Fire Retardant Coatings**

Characteristics:

Finish	Flat	**Shelf Life**	1 Year
Color	White, Black, Tints	**VOC**	Less Than 40 g/l
Type of Cure	Coalescence	**Flash Point**	None
Application Temperature	50°F (10°C) *** See Application Temperature Section	**Reducer/Cleaner**	Water
Solids By Volume	67%	**Packaging**	5 & 55 gal. containers
Tinting	Tinting should be performed only by the manufacturer	**Application**	Brush, Roller, Spray
Drying Time @ 77°F (25°C) & 50% R.H.	**To touch: 1- 2 Hours** **To Recoat: 2 – 4 hours**	**Thermal Barrier Spread Rate** Consult Evaluation Report for more information	20 mils WFT: 80 Sq Ft/Gallon 18 mils WFT: 89 Sq Ft/Gallon 14 mils WFT: 115 Sq. Ft/Gallon 12 mils WFT: 134 Sq. Ft/Gallon

Surface Preparation:

All surfaces to be painted must be clean and cured. The Foam substrate should fully cured and cool. It is important to ensure the surface is free of dust, dirt, oil, wax, grease, and mildew. The quality of any paint job is only as good as the surface preparation that precedes the paint application. Flame Control 60-60A has excellent bonding characteristics and will adhere to most sound, clean, foam surfaces. Make sure the surface of the foam is free of defects.

Note: Shiny, Glossy surfaces may require the use of a bonding primer. Always test adhesion before continuing.

Temperature:

60-60A is water-based coating which will freeze at temperatures below 32°F. Care should be taken to protect the material from freezing. The recommended storage temperature of 60-60A is between 50°F and 80°F. 60-60A should be applied when ambient and substrate temperatures are above 45°F

Important:

Humidity 65% and higher must use fans to move air for curing. High humidity may require longer cure times. Mechanical ventilation may be required before, during, and after application of 60-60A for up to 72 hours in enclosed spaces. Do not apply if relative humidity exceeds 70%.

Installed Environments: 60-60A is intended for use in interior, conditioned spaces. When 60-60A is installed in areas of high humidity or unconditioned spaces prone to moisture, a compatible protective topcoat such as Flame Control 400 or Sherwin-Williams A-100 may be required. When questions arise regarding suitability for a particular environment, please consult with Flame Control Technical Service.

Please consult with your local code officials to verify that your application complies with the appropriate code requirements.

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Material Preparation:

60-60A must be thoroughly mixed before application. Failure to do so may compromise the performance of the coating. We recommend mechanical stirring with a high-speed drill and a paddle appropriate for the size container. Contents should be stirred to a creamy consistency with no lumps.

60-60A is a water-based product and slight thinning will not hurt the product. It should be noted that thinning increases the likelihood of not applying the proper film thickness, resulting in decreased fire protection capabilities. It is the sole responsibility of the applicator to ensure the proper film thickness has been applied.

60-60A should never be mixed with other materials. Tinting should only be done by the manufacturer.

Application Equipment:

60-60A can be applied by brush, roller or airless sprayer.

Brushing: Use top quality polyester/nylon blend brushes

Rolling: 3/8" polyester blend nap roller covers generally work well when applying **60-60A** by roller.

Spraying:

Airless Spray Minimum:

PSI: 2500 PSI or higher or equivalent
Filter: 30 mesh, removal of filter is recommended from gun and machine
Hose: 1/4" diameter airless spray line for the first 50' from pump and ¼" x 6' whip
Tip: 517 - 523
GPM: .75

For best results use, Hose: 3/8" diameter airless spray line for the first 50' from pump and ¼" x 6' whip and no filters gun and machine.

Workmanship:

General: Apply **60-60A** according to manufacturer's written instructions. Use application equipment 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.

60-60A may be applied in a single coat. 60-60A will resist sagging and dripping when applied at thicknesses up to 35 mils WFT.

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 12.1 mils. The medallion method was utilized during testing to measure dry film thickness. Actual coverage rates will vary based on surface texture, overspray, and transfer losses. Please allow a minimum of 5-10% overspray and loss rate when estimating and applying coating.

The application rate should be adjusted for surface texture, overspray, and miscellaneous losses. Refer to SPFA-121 "Spray Polyurethane Foam Estimating Reference Guide" for specific determination methods.

The use of an overlapping technique is recommended to ensure that a uniform amount of coating is applied onto the foam surface. The applicator should adjust the spray pattern and technique so that each application stroke overlaps by 30%.

Cold Weather Application:

60-60A is a unique water-based intumescent coating formulated to be cold weather tolerant. 60-60A can be applied when ambient temperatures are as low as 45°F.

Curing time: 7 Days

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For Smaller Jobs Residential and Small Warehouses:

Pump: (Titan) 740 Impact or equivalent
PSI: 3300 / 227
GPM: .80
Tip: 525 – 531 or equivalent.
Filter: 30 mesh, removal of filter is recommended from gun and machine
Hose: 1/4" diameter airless spray line for the first 50' from pump and ¼" x 6' whip

Pump: (Graco) Ultra Max II 795 Hi-Boy or equivalent
PSI: 3300 / 227
GPM: .95
Tip: 525 – 531 or equivalent.
Filter: 30 mesh, removal of filter is recommended from gun and machine
Hose: 1/4" diameter airless spray line for the first 50' from pump and ¼" x 6' whip

Pump: (SprayTex) GPX 130 or equivalent
PSI: 3300 / 227
GPM: 1.30
Tip: 525 - 531 or equivalent.
Filter: 30 mesh, removal of filter is recommended from gun and machine
Hose: 1/4" diameter airless spray line for the first 50' from pump and ¼" x 6' whip

For Best results: For all Jobs, big or small:

Pump: (Graco) Mark 4 or 5 or equivalent
PSI: 3300 / 227
GPM: 1.35
Tip: 525 - 533 or equivalent.
Filter: 30 mesh, removal of filter is recommended from gun and machine
Hose: 3/8" diameter airless spray line for the first 50' from pump and ¼" x 6' whip

For 55-gallon Drums:

Pump: (Graco) GH 300 or equivalent
PSI: 3300/ 227
GPM: 3.0 / 11.4
Tip: 525 - 537 or equivalent.
Filter: 30 mesh, removal of filter is recommended from gun and machine.
Hose: 3/8" diameter airless spray line for the first 50' from pump and ¼" x 6' whip
Pump: (Graco) GH 833 or equivalent
PSI: 4000/ 276
GPM: 3.0 / 11.4
Tip: 517 - 537 or equivalent.
Filter: 30 mesh, removal of filter is recommended from gun and machine
Hose: 3/8" diameter airless spray line for the first 50' from pump and ¼" x 6' whip

Checklist Before You Start:

- ✓ **Humidity** - Is the relative humidity less than 65%?
- ✓ **Consistency** - Are the contents thoroughly mixed?
- ✓ **Surface** - Are all substrates clean, dry and sound?
- ✓ **Measurement** - Wet film gauge on site?
- ✓ **Need help** - Call 716-282-1399
- ✓ Correct spray tips – 525-527 recommended
- ✓ Airless sprayer with minimum .07 GPM
- ✓ Power drill & mixer of appropriate size
- ✓ Portable fans to speed drying
- ✓ Work lights for tight areas

Revised 4/1/25