



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 2006, 2009, 2012, and 2015 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

60-60A is AC-456 Compliant

Evaluation Report: IAPMO ER 596 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	61%	Packaging	5 & 55 gal. containers
Tinting	Universal Paint Colorant: 2 Fluid ounces per gallon maximum	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	20 mils WFT: 80 Sq Ft/Gallon 18 mils WFT: 89 Sq Ft/Gallon

Surface Preparation:

All surfaces to be painted must be clean and cured. The foam must be firm, dry and 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 holes, exposed cells, and that the surface is stable and not crumbling or deteriorated. If any 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.

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. Should 60-60A freeze, warm the material and thoroughly mix prior to application. It is recommended to store material at temperatures above 50°F. For temperatures below 50°F, refer to the 60-60A cold weather application brochure. 60-60A has been subjected to freeze-thaw testing and is suitable for use even if the material has been frozen.

Humidity: When 60-60A is installed in areas of high humidity, a compatible protective topcoat is recommended.

Important:

During Application, humidity 65% and higher must use fans to move air for curing. High humidity may require longer cure times.

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 will compromise the protective capabilities of Flame Control 60-60A. 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, however tinting using universal paint tint is acceptable. 60-60A can be tinted up to a maximum of 2 fluid ounces per gallon (10 ounces per 5-gallon pail).

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 1/4" x 6' whip

Tip: 525 - 531

GPM: .75

For best results use, Hose: 3/8" diameter airless spray line for the first 50' from pump and 1/4" x 6' whip and no filters in the gun and machine.

Workmanship:

General: Apply **60-60A** 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.

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 35°F.

When the temperature is below 45°F, 60-60A can be thinned at the rate of 2 fluid oz. per gallon. Simply add the water to 60-60A while drill mixing the coating and continue to mix until the water has been thoroughly incorporated into the coating. **Full 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 1/4" 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 1/4" 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 1/4" 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 1/4" 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 1/4" 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 1/4" 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