Flame Control Coatings Canada Ltd.
75 Chambers Drive, Unit 9, Ajax, Ontario, L1Z 1E1 (905) 619-0115

FLAME CONTROL NO. 60-60A

A low VOC, water based product

Intumescent Fire Retardant Paint
CAN/ULC S-101-14 Thermal Barrier On Spray Polyurethane Foam

DESCRIPTION:

Flame Control No. 60-60A provides a CAN/ULC S-101-14 and NFPA 286 rated thermal barrier on spray polyurethane foam and has met the following criteria: 2011 Edition and 2006 IBC Section 803.2.1 /2009 IBC Section 803.1.2 / NFPA 101, and Life Safety Code, 2009 Edition, Section 10.2.3.7.2, and 2009 IRC 316.6. It is an interior, water based, intumescent fire retardant paint. No. 60-60A dries to a flat finish, having the appearance much like conventional paint. On contact with flame or excessive heat, the coating decomposes and puffs up (intumesces) forming a thick, dense, spongy foam layer that checks flame spread and retards heat penetration.

RECOMMENDED USES:
For application to spray polyurethane foam surfaces in occupied spaces where spray foam insulation must be separated from the interior of the building per IBC Section 2603.4 approval.

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 a thermal barrier rating is required on polyurethane spray foam surfaces..

PERFORMANCE INFORMATION:

- Provides a ULC and NFPA test method qualifying thermal barrier on spray polyurethane foam installations - See Fire Hazard Classification Section.
- Dries by water evaporation to a tough, hard, velvety flat finish.
- Does not leach (lose fire retardancy) on exposure to high humidity.
- Meets all present VOC and environmental/ecological regulations

CHARACTERISTICS:

Finish . . . . . Flat

Color. . . . . Off-White

Tinting . . Tinting is possible, however mixing by shaking is not sufficient to ensure total colorant blend. Thorough mixing with a paddle or drill mounted type mixer is necessary. Check colorant for compatibility, using about 2 fl. oz. of No. 60-60A and 4-6 drops of colorant. Mix well, and check for gelling, precipitation, or other adverse reaction. Allow sample to sit overnight, before proceeding.

Spreading Rate . . . .
Final Coverage After All Coats:
(may be applied in 1 or more coats)
80 sq. ft./gal. (1.95 m^2/L)
20 mils wet, 10 mils dry

V.O.C. Less Than . . . . . .40 g/L

Volume Solids . . . . . 51% ± 2

Weight Solids . . . . . 65% ± 2

Drying Time @ 77°F & 50% RH: . . To touch 1-2 Hr.
To recoat 2-4 hours

Type of Cure . . . Water evaporation

Flash Point. . . . . None

Reducer/Cleaner . . . . . Water

Shelf Life. . . . .12 months (unopened)

Packaging . . . . . 1 & 5 gal. containers
weight/gal. 12 ± 0.2 lbs.

Shipping weight . . . . 4 gals - 52 lbs.
5 gals - 63 lbs.

Application . . . . .Brush and roller are possible, but due to the irregular surface, spray is preferred.

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. DO NOT TAKE INTERNALLY.

Read MSDS before opening containers.

KEEP OUT OF REACH OF CHILDREN

SURFACE PREPARATION:

All foam surfaces to be painted must be clean and fully cured. Surface preparation should be carried out according to good painting practices. The foam must be firm, dry and free of dust, dirt, grease, oil, wax, and mildew. Mildew should be removed by scrubbing with a 25% solution of household bleach water. TSP or common laundry powder such as Tide may be added to solution to assist removal. This solution and all residues should be thoroughly rinsed and allowed to dry before 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 the the surface is stable and not crumbling or deteriorated. If any defects are found, repair them prior to proceeding.

60-60A is a water based coating that will freeze and become unstable at temperatures below 10ºC (50ºF). Apply at temperatures between 10ºC and 30ºC. Store at temperatures above 10ºC.

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

MATERIAL PREPARATION:

60-60A must be thoroughly mixed prior to application. Failure to do so will compromise protective capabilities of the 60-60A. We recommend mechanical stirring with a high speed drill and paddle appropriate for the size container. Contents should be stirred from the bottom up, making sure to scrape the sides with a paint stick as you go. 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. Care must be taken to ensure that the correct amount of 60-60A is still applied if it is thinned.

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APPLICATION:

APPLICATION EQUIPMENT:

Airless Spray Minimum:

PSI: 3000 PSI or higher

Filter: 30 mesh, removal of filter is recommended from gun and machine

Hose: ¼" diameter airless spray line for the first 50' from pump and ¼" x 6' whip.

Tip: 517-531

GPM: 0.95

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

Recommended for best results: For all jobs big or small:

Pump: (Graco) Mark 4 or 5 or equivalent

PSI: 3300 / 227

GPM: 1.35

Tip: 517 – 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 drum users:

Graco GH 300, or Graco GH 833, or equivalent recommended. Inquire with Flame Control for more details.

FIRE HAZARD CLASSIFICATION

CAN/ULC S-101-14: 29 minute thermal barrier on spray applied polyurethane foam when tested in accordance with **CAN/ULC-S101-14** Standard Method of Fire Endurance Tests of Building Construction and Materials. Flame Control 60-60A met and exceeded the standard test criteria of **CAN/ULC S-101-14** as tested by Guardian Fire Testing Laboratories, Buffalo, NY.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO SPRAY POLYURETHANE FOAM) Thermal Barrier Rating
PRIMER – None **BASE COAT** – Type 60-60A applied at 80 sqft/gal in one coat over 4" of 2 lb/cft foam installed between wood studs 16" on centre. **TOP COAT** - None	**0:29:13** **29 minutes 13 seconds** (test extension may have yielded greater results, however test was ended with the pass of the required result*)

(*) The fire test was conducted for a total time period of 29.2 minutes. There was no evidence of increasing flame and smoke intensity at end of the test. Flames on foam immediately self-extinguish after flame source shut off. A complete fire test is available upon request.

NFPA 286: 15 minute thermal barrier on spray applied polyurethane foam when tested in accordance with **NFPA 286**. Flame Control 60-60A met the following criteria: 2011 Edition and 2006 IBC Section 803.2.1 /2009 IBC Section 803.1.2 / NFPA 101, and Life Safety Code, 2009 Edition, Section 10.2.3.7.2, and 2009 IRC 316.6

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO SPRAY POLYURETHANE FOAM) Thermal Barrier Rating
PRIMER – None **BASE COAT** – Type 60-60A applied at 80 sqft/gal over 6" of 2 lb/cft foam installed between wood studs 16" on centre, and applied at 80 sqft/gal over 8" of 2 lb/cft foam installed between wood joists 16" on centre. **TOP COAT** - None	**0:15:30** **15 minutes 30 seconds** (test extension may have yielded greater results, however test was ended with the pass of the required result*)

(*) The fire test was conducted for a total time period of 15.5 minutes. There was no evidence of increasing flame and smoke intensity at end of the test. Flames on foam immediately self-extinguish after flame source shut off. A complete fire test is available upon request.

Revised 18/01/16