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ICC-ES Evaluation Report

ESR-3993

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Issued 08/2017
This report is subject to renewal 08/2018.

DIVISION: 09 00 00—FINISHES
SECTION: 09 96 43—FIRE-RETARDANT COATINGS

REPORT HOLDER:

FLAME CONTROL COATINGS

4120 HYDE PARK BOULEVARD
NIAGARA FALLS, NEW YORK 14305

EVALUATION SUBJECT:

FLAME CONTROL 60-60A



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DIVISION: 09 00 00—FINISHES
Section: 09 96 43—Fire-Retardant Coatings

REPORT HOLDER:

FLAME CONTROL COATINGS
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EVALUATION SUBJECT:

FLAME CONTROL 60-60A

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015 *International Building Code*® (IBC)
- 2015 *International Residential Code*® (IRC)

Property evaluated:

- Application without a prescriptive thermal barrier
- Physical properties

2.0 USES

Flame Control 60-60A is a liquid-applied coating intended for application over the surface of spray-applied foam plastic insulation recognized in an ICC-ES evaluation report as complying with ICC-ES Acceptance Criteria for Spray-applied Foam Plastic Insulation (AC377). The coated assembly may be left exposed to the interior of the building without the application of a code-prescribed 15-minute thermal barrier when installed as described in this report.

3.0 DESCRIPTION

Flame Control 60-60A is a single-component, water-based, liquid-applied intumescent coating. The coating is supplied in 5-gallon (19 L) pails and 55-gallon (208 L) drums and has a shelf life of one (1) year when stored in factory-sealed containers at temperatures between 50°F (10°C) and 90°F (32°C).

4.0 DESIGN AND INSTALLATION

Flame Control 60-60A must be applied in accordance with the manufacturer's published application instructions and this report. A copy of the instructions must be available on the job site at all times.

Flame Control 60-60A must be mechanically mixed prior to application. The coating is applied to the required thickness using spray equipment, a brush or a roller having a medium nap. Surfaces to be coated must be inspected in accordance with the manufacturer's published application instructions and must be dry, clean, and free of dirt, loose debris and other substances that could interfere with the adhesion of the coating. The coating must not be applied when the ambient or surface temperature is below 50°F (10°C) or above 90°F (32°C) and relative humidity of not more than 65%. The manufacturer must be consulted for specific application conditions.

The Flame Control 60-60A coating may be applied over spray-applied foam plastic insulation without covering the coated assembly with the 15-minute thermal barrier prescribed in the IBC Section 2603.4 and IRC Section R316.4.

5.0 CONDITIONS OF USE

The Flame Control 60-60A coating described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Application must comply with this report, the manufacturer's published application instructions, and the applicable code. A copy of the application instructions must be on the job site during application of the coating. In the event of a conflict, this report and the code govern.
- 5.2** The application of additional interior finishes over the coating is outside the scope of this report.
- 5.3** Recognition in this report is for the specific assemblies and spray-applied foam plastic insulations described in Table 1. The spray-applied foam plastic insulation must be installed in accordance with the requirements set forth in the specific spray foam manufacturer's ICC-ES evaluation report noted in Table 1.
- 5.4** The coating is manufactured in Niagara Falls, New York, under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with ICC-ES Acceptance Criteria for Fire-protective Coatings Applied to Spray-applied Foam Plastic Insulation Installed Without a Code-prescribed Thermal Barrier (AC456), dated October 2015.

7.0 IDENTIFICATION

All containers of Flame Control 60-60A coating must be labeled with the manufacturer’s name (Flame Control Coatings) and address; the product name; the date of manufacture, the shelf life or expiration date; the

manufacturer’s instructions for application, and the evaluation report number (ESR-3993).

The spray-applied foam plastic insulations must be labeled in accordance with the applicable evaluation report (see Table 1).

TABLE 1—USE OF INSULATION WITHOUT A PRESCRIPTIVE THERMAL BARRIER

INSULATION TYPE	MAXIMUM THICKNESS (in.) (Vertical Surfaces)	MAXIMUM THICKNESS (in.) (Overhead Surfaces)	60-60A COATING MINIMUM THICKNESS ¹ (Applied to all Foam Surfaces)	MINIMUM THEORETICAL APPLICATION RATE OF COATING ²	TEST METHOD
BASF Spraytite 158 (See ESR-2642)	7½	11½	13 mils DFT 20 mils WFT	1.25 gal / 100 ft ²	NFPA 286
QuadFoam 500 (See ESR-3458)	7½	11½	13 mils DFT 20 mils WFT	1.25 gal / 100 ft ²	
QuadFoam 2.0 (See ESR-3459)	7½	11½	13 mils DFT 20 mils WFT	1.25 gal / 100 ft ²	

For SI: 1 inch = 25.4 mm; 1 mil = 0.0254 mm; 1 gallon = 3.38 L; 1 ft² = 0.93 m².

Notes:

¹DFT = Dry Film Thickness; WFT = Wet Film Thickness

²As reported in the manufacturer’s application instructions. Actual application rate, based upon specific project conditions, must be in accordance with the manufacturer’s application instructions.