



Rick D. Chandler, PE  
Commissioner

August 17, 2017

Medhat Hanna, PE  
Mechanical Engineer  
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Vladimir Mishin,  
FlameOff Coating Inc.  
1110 Navaho Dr., Ste. 110  
Raleigh, NC 27609

280 Broadway  
OTCR Division, 7<sup>th</sup> Flr,  
New York, NY 10007  
www.nyc.gov/buildings

Re: OTCR Submittal Code 18-17  
FlameOff Fire Barrier Intumescent Coating

212-393-2071 tele

Mr. Mishin,

Thank you for submitting an OTCR1 application for material assessment and approval in accordance with the 2014 NYC Construction Codes. The details of the application are provided below:

**Supporting Documents Submitted –**

1. OTCR1 Application,
2. FlameOff Fire Barrier Paint, Submittal and Guide Specification Structural Steel,
3. FlameOff Fire Barrier Paint Application Guide,
4. FlameOff Fire Barrier Paint MSDS,
5. Listing report "Building products listing program", and
6. ICC-ES ESR-3874 for FlameOff Fire Barrier Intumescent Fire-resistive Coating.

**Product Description** – FlameOff Fire Barrier intumescent coating is a water-based, passive fire protection solution for structural steel. The intumescent coating is applied with a decorative finish coat. FlameOff Fire Barrier intumescent coating has a Class A interior finish classification. This evaluation does not include the FlameOff FCI intumescent coating product (vinyl acetate resin).

**Uses** - FlameOff Fire Barrier intumescent coating provides up to a two-hour fire-resistance rating for interior structural steel columns for buildings of Type I and II construction.

OTCR evaluation has determined that an intumescent coating, such as the FlameOff Fire Barrier, is prescribed in the code. The FlameOff Fire Barrier intumescent coating may be used as prescribed when it complies with the following:

1. Section BC 603.1 of the NYC Construction Codes permits combustible materials, including intumescent fire resistance coatings, to be used in Types I and II construction (see application #21). Acceptable intumescent fire resistant coatings must be determined on the basis of fire-resistance tests in accordance with Section BC 703.2 (ASTM E119 or UL263) and installed in accordance with Section BC 1704.12.
2. Section BC 803.1.1 applies to interior wall and ceiling finishes, however the use of FlameOff Fire Barrier paint shall also comply with this section. In accordance with BC 803.1.1.2 installation of the Flameoff Fire Barrier Paint shall have a flame spread index no greater than that for the



classification rating specified in Table 803.1 for the group and location designated.

3. FDNY F.P. Index No 1706020 dated August 15, 2017.

Furthermore, OTCR has determined that ICC-ES ESR-3874 demonstrates compliance with requirements #1 and #2 above. The FlameOff Fire Barrier intumescent coating, when installed in accordance with ESR-3874, is acceptable for use in New York City, with the following exceptions:

- Special inspection shall be performed in accordance with BC 1704.12. (See Section 4.7 of ESR-3874).
- Installation shall be performed by certified installers who have successfully completed the FlameOff Installer Certification Program.

Please call me at 212-393-2071 if you have any questions regarding this matter.

Sincerely,

A handwritten signature in cursive script, appearing to read "Medhat Hanna".

Medhat Hanna, P.E.  
OTCR Engineer

Cc: Alan Price, PE, Director, OTCR  
Tamara Saakian, P.E. Director of Engineering/ Technology Management.  
Kam Chan, P.E. Lead Engineer/Administrative Engineer Technology Management