

## CON-RFB (HS) High Solids Reactive Fire Barrier Intumescent



Approved  
No. CF 5303

**General Description:** CON-RFB (HS) is a full-bodied water-based acrylic latex, single component coating designed to protect a wide range of building materials including structural steel, aluminum, dimensional lumber, manufactured wood products, trusses, drywall, spray polyurethane foam insulation, HDPE wall panels, concrete, plaster, solid core doors and more. The product may also be used for conduit, decking and cladding. Refer to our architectural specification for more details.

### Technical Data:

Color	White
Specific Gravity	1.35 +/- 0.05
pH Range	8.0 - 8.5
Weight/Gal	5.2 +/- 0.09 Kgs (11.5 Lbs)*
Hazardous Ingredients	N/A
Volume Solids	67.0 - 69.0%
Weight Solids	68.0 - 72.0%
Viscosity	20 - 25,000 cPs
Flammability	Not Flammable
VOC. (less Water)	.01 gm/L (Nil)

\*Does not include weight of packaging.



**Application Conditions:** CON-RFB (HS) is designed to be applied by spray application. For application using a brush or roller, use CON-RFB Original Formula. CON-RFB (HS) should not be applied when the relative humidity exceeds 80% or the surface to be coated is less than 10°C (50°F) or less than 9°C (15°F) above the current or forecasted dew point. The product is best applied when ambient temperatures are between 10°C (50°F) and 35°C (95°F). Once applied and cured, lower or higher temperatures can be tolerated. On structural steel and other metals such as aluminum, copper, brass, or composites, - a primer is always required. On combustible substrates such as dimensional lumber, manufactured wood (Oriented Strand Board, Particle Board, Plywood, etc.), Polyurethane foam, and drywall (GWB) a primer is not required but may be useful if:

**Dimensional Lumber** The wood is very old and/or dry and would likely absorb too much of the CON-RFB (HS) coating.

**Manufactured Wood** The substrate is very old and/or dry or if the resin content is unusually high.

**Polyurethane Foam** The foam is soy-based or made from other organics that emit a vegetable oil.

**Drywall (GWB)** The drywall has been previously painted with oil-based (alkyd) paint or if you're not sure.

Consult your CON-RFB representative for specific information regarding the brand, and types of acceptable primers to be used under CON-RFB (HS). **SEE Application Instructions at [www.contegointernational.com](http://www.contegointernational.com).**

**Drying & Cure Times at Standard Ambient Temperature and Humidity:** As with any water-based acrylic latex coating, drying time is always a function of ambient temperature, ambient humidity and coating thickness. At 15°C (60°F) with a relative humidity of 70%, a 500µ (20 mil) wet film thickness coat should be dry to touch within 3 hours, completely dry in 6 hours and dried hard enough to handle in 8 hours. While our specifications call for a 72 hour cure time, the product is active as soon as it is hard dried.

**DO NOT** apply additional coats until you are sure the underlying coats are completely dry. Applying additional coats on top of product that still has moisture may cause the finish to crack and, if enough moisture is trapped under a surface film, blistering and delamination can occur. A top coat is recommended and permitted after the total amount of required thickness of CON-RFB (HS) has been applied and completely dried. **SEE Drying and Cure Times at [www.contegointernational.com](http://www.contegointernational.com).**

### CON-RFB (HS) Product Advantages:

- **Exceptional protection from heat and fire.**
- **Smooth, thin, architectural grade finish.**
- **Top coat with a wide range of paints including alkyds, acrylics, water-based epoxy or polyurethane.**
- **CON-RFB (HS) commonly requires perhaps half the coating thickness and fewer coats to provide protection equal to or better than the competition. That means HUGE savings!**
- **Nontoxic, nondermatic and noncarcinogenic acrylic latex.**
- **Can be pre-applied to steel and other materials during fabrication and is easy to repair.**
- **Designed specifically for sprayer application. No special equipment is required.**
- **Any qualified contractor can apply it.**
- **Interior or exterior application (use an exterior grade top coat for exterior applications).**
- **Economically priced.**
- **Fast drying and fast curing times.**
- **Cleans up with soap and water.**
- **The longest shelf life in the industry. Does not need to be periodically reapplied.**

**CON-RFB (HS) is Truly  
Non-Toxic!**





# CON-RFB (HS) High Solids Reactive Fire Barrier Intumescent

**Required Coating Thickness:** Current recommendations are a maximum wet film thickness of 40 mils (1000µ), drying to 710µ (28 mils) - refer to the CON-RFB (HS) Application Guide. **For structural steel applications**, refer to our Project Planner to determine required thickness for various substrates, densities and required ratings. Contact a qualified Contego representative with further questions.

## General Guidelines for Coating Thickness Requirements:

**Dimensional Lumber** - Up to 2 hours depending on the size of the wood and the thickness of CON-RFB (HS) applied. (500µ dft/20 mils)

**Manufactured Wood** - Up to 2 hours depending on the size of the wood and the thickness of CON-RFB (HS) applied. (500µ dft/20 mils)

**Polyurethane Foam** - Meets or exceeds the 15 minute thermal barrier requirements of IBC-2603 using UL-1715 (500µ dft/20 mils). (Under EN-13823, CON-RFB (HS) 25 minutes with no change after 6 minutes).

**Drywall (GWB)** - CON-RFB (HS) adds 1 hour to any type of GWB. (380µ dft/15 mils)

**Structural Steel** - CON-RFB (HS) provides up to 3 hours restrained protection depending on the W/D, Hp/A or A/P of the steel and the thickness of CON-RFB (HS) applied. (200-5000µ dft/8-200 mils) - refer to our steel calculator.

**Aluminum** Columns have been tested for 2 hours. Aviation grade .025 panels for an estimated 4+ hours. (500-1270µ dft/20-50 mils)

## Precautions:

- Do not mix, thin or dilute the CON-RFB (HS) product with water or other materials.
- Do not allow the product to freeze. If frozen, the texture will be obviously different. Discard it.
- Do not store at temperatures above 40°C (105°F) for extended periods of time.
- Do not expose the product to rain, snow, dew or extreme humidity until a top coat is applied.

**Warranty:** CON-RFB (HS) products are warranted for ten years from date of application against material defects. Proof of purchase (store receipt and bar code from container) is required for warranty claims. Claims are limited to replacement of product only. The manufacturer accepts no responsibility for other losses or claims and the user waives such claims by breaking the seal on the container.

**Testing:** CON-RFB (HS) products are tested to a variety of standards including UL, ULc, EN, BS, ASTM, NFPA, UBC, CEN, ISO, and others by the best independent fire testing laboratories available. Contego uses Underwriters Laboratories (UL), Exova/Warrington, Intertek, Western Fire Center, Southwest Research Institute (SwRI), Guardian Laboratories, SGS/US Testing, KTA-Tator, Materials Analytical Services, MAGI and more. All labs are certified, accredited and audited. **Test results are available online at [www.contegointernational.com](http://www.contegointernational.com)** or can be obtained on DVD by contacting our customer services department or your local representative.

ETA Certification #16/0160

## Contact:

Contego International, Inc. (International)  
John M. Schwartz  
Dir., International Operations  
317-966-2189 - Pacific  
[john@contegointernational.com](mailto:john@contegointernational.com)

Contego International, Inc. (USA/Canada)  
PO Box 684  
Westfield, IN 46074  
800-434-6444 Toll Free in the USA  
317-580-0665 - Office  
317-580-0663 - Fax  
[info@contegointernational.com](mailto:info@contegointernational.com)

Todd Beehler (Finance, Accounting)  
Chief Financial Officer  
1013 Arthur St./ PO Box 49  
Rochester, IN 46975-2449  
317-379-2843 - Direct  
574-223-4442 - Fax  
[todd@contegointernational.com](mailto:todd@contegointernational.com)

International Partners:  
[http://www.contegointernational.com/international\\_distributors.html](http://www.contegointernational.com/international_distributors.html)  
[www.contegointernational.com](http://www.contegointernational.com)  
<http://www.facebook.com/pages/Contego/167681133258008> - Facebook  
<http://www.youtube.com/ContegoFireBarrier> - YouTube  
<http://www.twitter.com/contegopaint> - Twitter

CON-RFB (HS) is  
Truly Non-Toxic!

