



Approved
No. CF 5303

CON-RFB Original Formula Reactive Fire Barrier Intumescent

General Description: CON-RFB Original Formula 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. CON-RFB Original Formula is perfect for spray polyurethane foam insulation because of the highly variegated surface, or for applications where you have to use a brush or roller to apply. Refer to our architectural specification for more details.

Technical Data:

Color	White
Specific Gravity	1.32 +/- 0.05
pH Range	8.0 - 8.5
Weight/Gal	5.0 Kgs (11.0 lbs)*
Hazardous Ingredients	N/A
Volume Solids	58.0 +/- 2.0%
Weight Solids	60.0 +/- 2.0%
Viscosity	10,000 +/- 2,500 cPs
Flammability	Not Flammable
VOC. (less Water)	.01 gm/L (Nil)

*Does not include weight of packaging.



Application Conditions: CON-RFB Original Formula is designed to be applied by roller, brush or spray application. CON-RFB Original Formula 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 Original Formula 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 Original Formula. **SEE Application Instructions at 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 Original Formula has been applied and completely dried. **SEE Drying and Cure Times at www.contegointernational.com.**

CON-RFB Original Formula 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 Original Formula 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
Original Formula
is Truly Non-Toxic!**

**WHITE IS THE
NEW GREEN**



CON-RFB *Original Formula* Reactive Fire Barrier Intumescent

Required Coating Thickness: Current recommendations are a maximum wet film thickness of 1000 μ (40 mils), drying to 710 μ (28 mils) - refer to the CON-RFB Original Formula 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 CON-RFB 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 Original Formula applied. (500 μ dft/20 mils)

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

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

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

Structural Steel - CON-RFB Original formula 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 Original Formula applied. (200-5000 μ 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. (500-1270 μ dft/20-50 mils)

Precautions:

- Do not mix, thin or dilute the CON-RFB Original Formula 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 105°F (40°C) 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 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 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** or can be obtained on DVD by contacting our customer services department or your local representative.

ETA Certification #16/0160

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