



Approved
No. CF 5303

Contego High Solids Reactive Fire Barrier Intumescent (RFB)

General Description: Contego HS (RFB) 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 |
| pH Range | 8.0-8.5 |
| Weight/Gal | 11.2 lbs (5.08 Kgs)* |
| Hazardous Ingredients | N/A |
| Volume Solids | 66.0% (+/- 2%) |
| Weight Solids | 69.0% (+/- 2%) |
| Viscosity | 16K cPs (+/- 10%) |
| Flammability | Not Flammable |
| VOC. (LESS WATER) | .01 GRAMS /LITRE (Nil) |

*Does not include weight of packaging.



Application Conditions: Contego HS (RFB) is designed to be applied by spray application and should only be applied by brush or roller for touch up purposes. Contego PFB should not be applied when the relative humidity exceeds 80% or the surface to be coated is less than 50°F (10° C) or less than 15° F (9° C) above the current or forecasted dew point. The product is best applied when ambient temperatures are between 50°F (10° C) and 95°F (35° C). Once applied and cured, lower or higher temperatures should not be a problem. 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 Contego 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.

On structural steel and other metals such as aluminum, copper, brass, or composites, - a primer is always required.

No exceptions have been observed regarding what kind or brand of primer can be used. Even inexpensive shop primer has shown no incompatibilities. However, doing a test patch is always recommended with any new combinations of primer and our product since it is impossible to have tested every product from every manufacturer. **SEE Application Instructions at www.contigointernational.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 how thickly the coating was applied. However, at 60°F (15° C) with a relative humidity of 70%, a 20 mil (500µ) wet 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 Contego has been applied and completely dried. **SEE Drying and Cure Times at www.contigointernational.com.**

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, epoxy or polyurethane.*
- *Big Plus - with HS apply half as many coats with the same coverage.*
- *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 curing times.*
- *Cleans up with soap and water.*
- *24 month shelf life. Does not need to be periodically reapplied.*

Contego is Truly
Non-Toxic!





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Required Coating Thickness: Current recommendations are a maximum wet film thickness of 40 mils (1000 μ), drying to 28 mils (710 μ). The big advantage is impressive savings in application and labor costs and time. **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 Contego applied. (20 mils/500 μ dft)

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

Polyurethane Foam - Meets the 15 minute thermal barrier requirements of IBC-2603. (15 - 20 mils/380-500 μ dft)

Drywall (GWB) - Contego adds 55 minutes to any type of GWB. (15 mils/380 μ dft)

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

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

All applications are enhanced by 25% to 32% when top coated with a finish coat of your preference. Test results are based on comparative performance with an oil-based alkyd top coat.

Precautions:

- Do not mix, thin or dilute the Contego 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: Contego 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: Contego 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/USTesting, KTA, 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.

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