

Contego Intumescent Fire Barrier Latex ORIGINAL FORMULA



Tested and Classified

General Description: Contego PFB is a full-bodied 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. The **classic version of our 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. Its chemical signature is identical to our HS (High Solids) version and can be used interchangeably.

Technical Data:

Color	White
Specific Gravity	1.26
pH Range	8.0-8.5
Weight/Gal	10.5 lbs (4.9 Kgs)*
Hazardous Ingredients	N/A
Volume Solids	52.0% (+/- 2%)
Weight Solids	53.5% (+/- 2%)
Viscosity	110 Kres Units (+/- 10%)
Flammability	Not Flammable
VOC. (LESS WATER)	.01 GRAMS /LITRE (Nil)

*Does not include weight of packaging.



Application Conditions: Contego PFB is designed to be applied by roller, brush or spray application. Contego PFB should not be applied when the relative humidity exceeds 80% or the surface to be coated is less than 40°F (5° 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). While the product can be applied at lower temperatures, viscosity may be a problem and, if applied at higher than recommended temperatures, there may be a risk of runs or sags. Once applied and cured, extremely low or high 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.

Drying & Cure Times at Standard Ambient Temperature and Humidity: As with any 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. Apply 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, the entire finish may delaminate and fall off. Top coating is recommended and permitted after the total number of required thickness of Contego has been applied and completely dried.

Product Advantages:

- **Exceptional protection from heat and fire.**
- **Smooth, thin, architectural grade finish.**
- **Top coat with whatever you prefer alkyds, acrylics or lacquer.**
- **Nontoxic, nondermatic and noncarcinogenic latex.**
- **Can be pre-applied to steel and other material during fabrication and is easy to repair.**
- **May be sprayed, brushed or rolled. 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.**
- **No shelf life limitations and does not need to be periodically reapplied.**





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Required Coating Thickness: Current recommendations are a maximum wet film thickness of 20 mils (.50mm), drying to 10 mils (.25mm). Contact a qualified Contego representative with further questions. The big advantage is impressive savings in application and labor costs and time. **For structural steel applications**, refer to our calculator 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 to 200 mils /200 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 to 50 dft)

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

Precautions:

- Do not mix, thin or dilute the Contego product with anything else.
- Do not allow the product to freeze. If frozen, the texture will be obviously different. Discard it.
- Do not store in temperatures above 105°F (30°C) for extended periods of time.
- Do not expose the product to rain, snow, dew or extreme humidity until top coated.

Warranty: Contego products are warranted for ten years from date of application against material defects. Proof of purchase (store receipt and bar code from can) 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 users waives such claims by breaking the seal on the can.

Testing: Contego product are tested to a variety of standards such as UL, ULc, ASTM, NFPA, UBC, CEN, ISO, and others by the best independent fire testing laboratories available. Contego uses Underwriters Laboratories (UL), Intertek, Western Fire Center, Southwest Research Institute (SwRI), Omega Point, 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.

Contact:

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- ASTM E-84.98 (UL-723) Class A Flame Spread & Smoke Production Flame Spread - 0 ; Smoke Developed Index - 5
- ASTM E-119 (UL-263, UBC 7.1, ANSI A2.5, etc.) 1 Hour 45 min. Dimension lumber decking system.
- UBC-26.3 – Thermal Barrier Test for Interior Foam Plastic Systems.
- UBC-26.2 – Thermal Barrier for both standard and HUD applications.
- NFPA-286 – Contribution to Room Combustibility.
- Toxicity Data (Zero toxicity/No HAZMAT)
- Vapor Barrier Test – ASTM E-283-04
- Adhesion Test – ASTM D3359, Method A and Method B



SAFETY DATA SHEET

Issuing Date No data available

Revision Date 4-Aug-2016

Revision Number 0

1. IDENTIFICATION

GHS product identifier

Product Name Contego Intumescent Fire Barrier Latex (Original Formula)

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Fire barrier paint

Uses advised against No information available

Supplier's details

Supplier Address

Contego International, Inc.
P.O. Box 49
1013 Arthur Street
Rochester, IN 46975
TEL: 1-317-580-0655

Emergency telephone number

Emergency Telephone Number 1-800-434-6444

2. HAZARDS IDENTIFICATION

Classification

This chemical is not considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200).

Not classified

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word None

The product contains no substances which at their given concentration are considered to be hazardous to health

Appearance White. Physical State Liquid. Odor Mild.

2. HAZARDS IDENTIFICATION - Continued

Precautionary Statements

Prevention

- None

General Advice

- None

Storage

- None

Disposal

- None

Hazard Not Otherwise Classified (HNOC)

Not applicable.

Other information

If product is removed by sanding or grinding may produce dust particulates.

<50% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary Formulation

4. FIRST AID MEASURES

Description of necessary first-aid measures

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. Get medical attention if symptoms occur.
Skin Contact	Wash skin with soap and water. Remove and wash contaminated clothing before re-use. If skin irritation occurs: Get medical advice/ attention.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Ingestion	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

Specific Hazards Arising from the Chemical

None known

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Avoid contact with the skin and the eyes. Use personal protective equipment as required.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and materials for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Use personal protective equipment as required. Do not take internally. Wash thoroughly after handling. Avoid sanding and grinding surfaces containing dried paint film.

Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed.

Incompatible Products Strong acids. Strong oxidizing agents.

9. PHYSICAL AND CHEMICAL PROPERTIES - Continued

Flammable Properties Not flammable
Explosive Properties No data available
Oxidizing Properties No data available

Other information

VOC Content (%) Negligible
VOC (g/l) 0.01

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Incompatible products.

Incompatible materials

Strong acids. Strong oxidizing agents.

Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation No known hazard by inhalation.
Eye Contact Contact with eyes may cause irritation.
Skin Contact No known hazard in contact with skin.
Ingestion No known hazard by swallowing.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Pentaerythritol	= 10000 mg/kg (Rat)	-	-
Titanium dioxide	> 10000 mg/kg (Rat)	-	> 6820 mg/m ³
Aluminum hydroxide	> 5000 mg/kg (Rat)	-	-

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

11. TOXICOLOGICAL INFORMATION - Continued

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization Not expected to be a sensitizer.
Mutagenic Effects No information available.
Carcinogenicity This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product. However, this product may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

Chemical Name	ACGIH	IARC	NTP	OSHA
Titanium dioxide		Group 2B		X
Glass, oxide		Group 3		
Silica, amorphous, precipitated and gel		Group 3	Reasonably Anticipated	X

IARC: (International Agency for Research on Cancer)
 Group 2B - Possibly Carcinogenic to Humans
 Group 3 - Not Classifiable as to its Carcinogenicity to Humans

NTP: (National Toxicity Program)
 Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)
 X - Present

Reproductive Toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration Hazard No information available.

Numerical measures of toxicity - Product

Acute Toxicity <50% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

LD50 Oral 4425 mg/kg; Acute toxicity estimate

12. ECOLOGICAL INFORMATION

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Pentaerythritol 115-77-5		LC50 48 h: = 50000 mg/L semi-static (Oryzias latipes)		EC50 48 h: 30477 - 37043 mg/L Static (Daphnia magna) EC50 24 h: = 38900 mg/L (Daphnia magna)

Persistence and Degradability No information available.

Bioaccumulation No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging Do not re-use empty containers.

14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA	All ingredients are on the inventory or exempt from reporting.
DSL	Not determined

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

15. REGULATORY INFORMATION - CONTINUED

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Titanium dioxide	13463-67-7	Carcinogen

U.S. State Right-to-Know Regulations

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Melamine	X	X	X		
Pentaerythritol	X	X	X		X
Titanium dioxide	X	X	X	-	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

NFPA	Health Hazard 1	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazard 1	Flammability 0	Physical Hazard 0	Personal Protection X

Revision Date 4-Aug-2016
 Revision Note No information available.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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End of Safety Data Sheet