



# FIRE Retardants Inc.™

*The Decision You Make May Save A Life!*

123 Columbia Court North • Suite 201 • Chaska, MN 55318

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**Fire Retardant "HOT LINE" 1-800-913-9385**

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**Visit Our Web Site at [www.fireretardantsinc.com](http://www.fireretardantsinc.com)**

## **BURN BARRIER NO. 149**

### **Exterior Fire Retardant Paint**

#### **Fire Hazard Classification, Class "A"**

#### **DESCRIPTION:**

BURN BARRIER No. 149 is a highly flexible, weather resistant, intumescent fire retardant paint. When attacked by fire or high heat, the coating intumesces (puffs up), forming a thick, dense foam fire barrier. This foam barrier retards heat penetration and checks the spread of flame.

#### **RECOMMENDED USES:**

This product was primarily designed for use on wood or metal crating and containers used for the storage, transportation, and disposal of highly hazardous substances, such as radioactive materials, nuclear waste, poisonous gas cylinders, and other hazardous items requiring maximum fire protection.

#### **USED BY:**

Schools, Colleges, Nursing Homes, Child Care Centers, Hospitals, Penal Institutions, Apartments, Hotels, Factories, Warehouses, Retail Stores, Restaurants, Utilities, Railroad and other Transportation Companies, Oil and Chemical Installations, Military Installations, and other facilities where fire retardant coatings are required.

#### **PERFORMANCE INFORMATION:**

- Class "A" fire rated on wood when applied in two coats at 220 sq.ft./gallon per coat. - See Fire Hazard Classification Section.
- Complies with federal, state, local building and fire code requirements.
- Does not leach (lose fire retardancy) on exposure to high humidity.
- Meets all current environmental regulations.

#### **CHARACTERISTICS:**

**Finish** ..... Flat

**Color** ..... White, Off White  
Pastel shades

**Tinting** . . . Can be tinted up to 2 fl. oz. with most universal colorants. Check colorant for compatibility, using about 2 fl. oz. of No. 149 and 4-6 drops of colorant. Mix well, and check for gelling, precipitation, or other adverse reaction. Allow sample to sit overnight, before proceeding.

**Spreading Rate** ..... 220 sq. ft./gal. (5.4 m<sup>2</sup>/l.)  
Per coat applied in two coats  
7.3 mils wet, 4.2 mils dry

**Coverage** .....  
**Combustible Surfaces (2 coats):**  
..... 175-225 sq.ft./US gal/coat  
(4.3 – 5.5 m<sup>2</sup>/L)

**Metal Surfaces (2 coats):**  
..... 100-150 sq.ft./US gal/coat  
(2.5 – 3.75 m<sup>2</sup>/L)

**V.O.C. Less Than** ..... 3.5 lbs./gal. (420 g/L)

**Volume Solids** ..... 58% ± 2

**Weight Solids** ..... 72% ± 2

**Drying Time @ 77°F & 50% RH:** . .  
To touch 4 hours  
Hard Dry 16 hours  
Full Cure 72 hours  
Allow at least 24 hours between coats

**Type of Cure** . . . Solvent Evaporation

**Flash Point** ..... 45°F (7.22°C)

**Reducer/Cleaner** .....  
149 Special Reducer

**Shelf Life** . . . . . 9 months (unopened)

**Packaging** . . . . . 1 & 5 gal. containers  
weight/gal. 10.9 lbs.

**Shipping weight** . . . . . 4 gals - 47 lbs.  
5 gals - 58 lbs.

**Application** ..... Brush, roller,  
conventional and airless spray

#### **SURFACE PREPARATION:**

Surface preparation should be carried out according to good painting practices. All dirt, grease, oil, wax, rust, and other foreign matter must be removed.

#### **New Surfaces:**

New wood, fiberboard, and other surfaces having uneven or excessive porosity, should be sealed with an acrylic sealer or equivalent and allowed to dry a minimum of 6 hours, before applying No. 149. New metal surfaces must be primed. Apply BURN BARRIER No. 3004-A Universal Primer or BURN BARRIER No. 3005-A Two Component Epoxy Primer. Allow to dry 16 hours or until hard, before applying No. 149.

#### **Previously Painted Surfaces:**

No. 149 may be applied directly to most existing paints that are tightly adherent, and in good condition. However, we recommend spot testing for lifting. If lifting occurs, remove old coating and treat as new surface. All glossy surfaces should be dulled with sandpaper. Spot prime where necessary with appropriate BURN BARRIER primers as shown above, before applying No. 149.

#### **APPLICATION:**

BURN BARRIER No. 149 is ready to use. It can be applied by brush, roller or conventional heavy-duty spray equipment. Stir thoroughly and apply, using a full-bodied coat. If thinning is required, use only No. 149 Special Reducer.

Do not apply in temperature below 50°F (10°C).

#### **Airless Spray**

#### **Titan 740 Impact (or Equivalent)**

- Pump
- Fluid Pressure. . . . . 2800-3200 psi
- Manifold Filter . . . . . None
- Gun Filter . . . . . 30 Mesh or remove
- Fluid Hose . . . . . ¼" diameter
- Gun . . . . . LX-80 II
- Tip. . . . . .021 - .025
- Reduction . . . . . Up to 7%

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#### **PRECAUTIONS:**

**WARNING!** FLAMMABLE LIQUID & VAPOR: CONTAINS TOLUENE & XYLENE.

VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks and flame.

VAPORS MAY CAUSE FLASH FIRE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

**Read MSDS before opening containers**

**KEEP OUT OF REACH OF CHILDREN**

#### **FIRE HAZARD CLASSIFICATION**

Flame Spread Rating. Class "A" when tested in accordance with ASTM E-84 (NFPA 255, ANSI/UL723 and UBC 8-1), the coating obtained the following fire hazard classification.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO DOUGLAS FIR)	
	Flame Spread	Smoke Developed
PRIMER OR SEALER None BASE COAT Type 149 applied in two coats at 220 sq. ft./US gal per coat (5.4 m <sup>2</sup> l.) TOP COAT None	10	90

As we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used, we accept no responsibility for results obtained by the application of this information or the safety or suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. We sell the products without warranty or guarantee, and buyers and users assume all responsibility and liability for loss or damage from the handling and use of our products, whether used alone or in combination with other products.

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