

# **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. 10-10**

**A Mineral Spirit Based, Flat Alkyd Type  
Intumescent Fire Retardant Paint**

**Fire Hazard Classification, ASTM E-84 (NFPA 255)  
Class "A"; also up to 60 minutes (1 hour) per  
NFPA 703 & BOCA 1702-4.1**

### **DESCRIPTION:**

A Class "A", interior, mineral spirit based, flat alkyd type, fire retardant paint, manufactured in accordance with Federal Specification TT-P-26C, dries quickly to a velvety flat finish, having the appearance of a conventional paint. On contact with flame or excessive heat, the coating decomposes and puffs up (intumesces) forming a thick, dense, spongy foam layer that checks flame spread and retards heat penetration.

### **RECOMMENDED USES:**

For application to all interior combustible surfaces where it is either necessary or desirable to reduce the surface burning characteristics of combustible materials, also, on metal surfaces to retard the penetration of heat.

### **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 Class "A" fire retardant coatings are required.

### **USE UNTOPCOATED OR TOPCOATED:**

Topcoating is not necessary for most applications however, on surfaces requiring maximum washability and cleansibility, No. 10-10 should be topcoated with Flame Control No. 40-40A Low-Gloss Latex Fire Resistant Coating.

### **PERFORMANCE INFORMATION:**

- Class "A" fire rated; has also been fire tested for periods up to 60

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minutes (1 hour) - See Fire Hazard Classification Section.

- Complies with federal, state, local building and fire code requirements.
- Dries by solvent evaporation to a tough, hard, velvety flat finish.
- Does not leach (lose fire retardancy) on exposure to high humidity.
- Meets all present lead and ecological regulations - Photochemically non-reactive according to Rule 102.

### **CHARACTERISTICS:**

**Finish** . . . . . Flat, 5 units max. @ 60°

**Color** . . . . . White, Off-White and 13 standard colors, or may be tinted with #844 or Uni-Cal 66 tinting colorants. Tinting colorants should not exceed two fluid ounces per gallon

**Spreading Rate** . 190 - 230 sq. ft./gal. (5.6 m<sup>2</sup>/L)  
7 mils wet, 3.8 mils dry

**V.O.C. Less Than** . . . . . 3.2 lbs./gal. (384 g/L)

**Volume Solids** . . . . . 49% ± 2

**Weight Solids** . . . . . 70% ± 2

**Drying Time @ 77°F & 50% RH:** . . To touch 30 min.  
To handle 6-8 hours  
To topcoat 24 hours

**Type of Cure** . . . Solvent evaporation

**Flash Point** . . . . . 104°F (40°C)  
(Pensky-Martens Closed Cup)

**Reducer/Cleaner** . . Mineral Spirits or VM & P Naphtha

**Shelf Life** . . . . . 6 months (unopened)

**Packaging** . . . . . 1 & 5 gal. containers weight/gal. 10.5 ± 0.2 lbs.

**Shipping weight** . . . . 4 gals - 46 lbs.  
5 gals - 56 lbs.

**Application** Brush, roll, conventional and airless spray

### **PRECAUTIONS:**

The liquid coating contains volatile (combustible) solvents. Due care must be exercised during and after application. Adequate ventilation must be provided during and after application until the coating is dry. Keep away from heat, sparks, and open flame. Do not smoke - extinguish all flames, pilot lights and heaters - turn off stoves, electric tools, and appliances, and any other source of ignition. Avoid contact with skin and breathing of vapor or spray mist. Close container after use. **DO NOT TAKE INTERNALLY.**

**Read MSDS before opening containers.**

**KEEP OUT OF REACH OF CHILDREN**

### **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. All metal surfaces must be primed.

### **NEW SURFACES:**

New wood, fiberboard and other surfaces having uneven or excessive porosity should be sealed with Flame Control 3001 Acrylic Primer and allowed to dry a minimum of 16 hours before applying No. 10-10. On new drywall and other non-combustible surfaces, use only Flame Control 40-40A. New ferrous metal surfaces must be primed. Apply Flame Control 3004A Universal Metal Primer. Allow to dry 16 hours or until hard, before applying  
No. 10-10.

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**PREVIOUSLY PAINTED SURFACES:**

No. 10-10 may be applied directly to existing paint that is tightly adherent and in good condition. All glossy surfaces should be dulled with sandpaper. Spot prime where necessary with appropriate primer as shown above, before application of No. 10-10.

**APPLICATION:**

Mix paint thoroughly by boxing or stirring. No. 10-10 can be applied by brush, roller, airless or conventional heavy duty spray equipment. Apply using a full bodied coat at the recommended coverage rates. To conform with surface burning characteristics established for this paint, dilution of the paint should be compensated with reduced coverage rates. Do not apply when surface or air temperature is below 50°F (10°C).

**APPLICATION EQUIPMENT:**

**Conventional Spray**

Air Supply . 12 CFM, 50 psi at nozzle,  
fluid 15-20 psi  
Gun . . . . . Graco 217-800 to 217-816  
Type . . . . . External Mix  
Reduction . . . . . Up to 7%

**Airless Spray**

Pump . . . . . Mauler 11\* (minimum)  
Fluid Pressure . . . . . 2500 psi  
Strainer . . . . . 80 Mesh  
Fluid Hose . . . . . ¼" diameter  
Gun . . . . . G-10N  
Tip . . . . . .020 - .026  
Reduction . . . . . Up to 7%

\* Minimum

**FIRE HAZARD CLASSIFICATION**

Flame Spread Rating Class "A" when tested in accordance with ASTM E-84 (NFPA 255), the coating obtained the following UNDERWRITERS' LABORATORIES OF CANADA fire hazard classification.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO DOUGLAS FIR)	
	Flame Spread	Smoke Developed
<b>PRIMER</b> None <b>BASE COAT</b> - Type 10-10 applied in one coat at 230 sq. ft./U.S. gal. (5.6 m <sup>2</sup> /L) <b>TOP COAT</b> - None	10	15
<b>PRIMER</b> - None <b>BASE COAT</b> - Type 10-10 applied in one coat at 190 sq. ft./U.S. gal. (4.7 m <sup>2</sup> /L) <b>TOP COAT</b> - Type 40-40A applied in one coat at 625 sq. ft./U.S. gal. (15.3 m <sup>2</sup> /L)	10	15

**60 MINUTE FIRE TEST**

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO DOUGLAS FIR PLYWOOD)	
	Flame Spread	Smoke Developed
<b>PRIMER</b> - None <b>BASE COAT</b> - Type 10-10 applied in two coat at 250 sq. ft./U.S. gal. (6.1 m <sup>2</sup> /L)/coat <b>TOP COAT</b> - None	(*) 0	(*) 25

(\*) The fire test was conducted for a total time period of 60 minutes. There was no evidence of significant progressive combustion at the 60 minute period. Therefore, this product meets the flame test requirement as defined in NFPA 703 and the criteria specified in Section 1702-4.1 of the 1990 BOCA National Building Code. A complete 60 minute fire test is available upon request.

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.