

# **FIRE Retardants Inc.™**

*The Decision You Make May Save A Life!*

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

## **BURN BARRIER NO. 10**      **Shingle Treatment, Clear, Fire Retardant** **A Solvent Base Coating**                      **Fire Hazard Hazard Classification, Class "B"**

### DESCRIPTION:

No. 10 is a Class "B" rated fire retardant penetrating wood treatment designed for EXTERIOR use on previously untreated Cedar Shakes and Shingles. It is very effective in reducing the fire hazards of Cedar and other edge grained woods. No. 10 contains no water soluble salts, therefore, its fire retarding properties are lasting. The liquid penetrates deep into the wood depositing its water insoluble fire retardant polymers. Properly treated wood will char, thereby reducing surface burning characteristics. All exterior coatings are subject to deterioration when exposed to weather. In order to insure maximum continued protection, exposed surfaces should be recoated every three to four years. Exposure to strong sunlight will cause the wood to darken. This is due to the nature of the fire retardant ingredients. This darkening in no way affects or impairs the fire retardant qualities of the treatment.

### RECOMMENDED USES:

Designed primarily for use on new and previously untreated CEDAR SHAKES, SHINGLES, and other edge grained woods. Suitable for EXTERIOR application.

### USED BY:

Home Owners, Apartments, Motels, Hotels, Schools, Colleges, Nursing Homes, Child Care Centers, Hospitals, Factories, Warehouses, Retail Stores, Restaurants.

### PERFORMANCE INFORMATION:

- Class "B" fire rated (see fire hazard classification section)
- Does not leach on exposure to sun, rain, snow or ice.
- Dries by solvent evaporation.
- Meets all present lead regulations.

*Continued on next page...*

### CHARACTERISTICS:

**Finish** ..... Penetrating  
**Color** ..... Clear  
**Spreading**  
**Rate** .. 300 sq. ft./gal./coat (7.4 m<sup>2</sup>/L)  
           5.3 mils wet, 1.1 mils dry  
           (2 coats required)  
**Coverage @ 1 mil dry** 329 sq. ft./gal  
**Volume Solids** ..... 20.5% + 0.5  
**Weight Solids** ..... 30.5% + 0.5  
**Drying Time @**  
**77°F & 50% RH:**  
     To touch ..... 1-2 hours  
     To handle ..... 3-4 hours  
     To recoat ..... 2-4 hours  
**Type of Cure** ... Solvent Evaporation  
**Flash Point** ..... 110°F (43.3°C)  
                     (Pensky-Martens Closed Cup)  
**Reducer/Cleaner** ... Xylene (Xylol)  
**Shelf Life** .... 6 months (unopened)  
**Packaging** .. 1, 5 & 55 gal. containers  
                     weight/gal. 8.3 ± 0.15 lbs.  
**Shipping weight** ... 4 gals - 36 lbs.  
                             5 gals - 44 lbs.  
                             55 gals. - 515 lbs.  
**Application** .Brush, dipping, airless or  
                             conventional 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

### APPLICATION:

Apply two coats by brush, spray or by dipping. Dipping is the most effective method of treatment for shakes and shingles, as all surfaces are treated. Allow 24 to 48 hours drying time between coats (See PRECAUTIONS). When applying by dipping, allow sufficient time for penetration of the material. BURN BARRIER NO. 10 should be applied WITHOUT thinning or dilution. Apply when surface is dry, do not apply if surface is damp or wet, as moisture will prevent penetration of the coating. NOTE: The surface area of hand split and rough textured materials is GREATER than the apparent square footage of the area, reduce spreading rate to compensate for greater surface area.

### APPLICATION EQUIPMENT:

#### Conventional Spray

Air Supply ..... 15 CFM, 50 psi  
                             fluid 15 psi  
 Gun ... Graco 217-800 to 217-816  
 Type ..... External Mix  
 Reduction .... Not Recommended

#### Airless Spray

Pump ..... Super Stinger \*  
 Compressor ..... 4.2  
 Fluid pressure ..... 1625 psi  
 Strainer ..... 100 Mesh  
 Fluid Hose ..... ¼" diameter  
 Gun ..... G-10N  
 Tip ..... .012 - .017  
 Reduction .... Not Recommended

\* Minimum

### FIRE TEST:

#### SMALL SCALE TEST METHOD:

A cedar shingle approximately one foot square was divided in half. One section was treated with two coats of BURN BARRIER NO. 10, at a coverage rate of 300 sq. ft./gallon, per coat. Panels were allowed to dry 72 hours, before fire testing.



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## **BURN BARRIER NO. 10** Shingle Treatment, Clear, Fire Retardant A Solvent Base Coating Fire Hazard Hazard Classificaton, Class "B"

The panels were placed at a 45. angle for an incline fire test. A Fisher high temperature gas burner, having a flame temperature of 1800. was placed two inches from the panel surface, and the time of the flame exposure measured. The flame was removed at 15 and 30 second intervals, and the time in seconds for the panel surface to self extinguish was recorded. See test results at right.

**FULL SCALE TEST RESULTS:**

Class "B" (\*) Fire Retardant Rating.

Information provided herein is based on tests believed to be reliable. In as much as we have no control over the use or application to which others may put this material, we make no guarantee or warranty. This product is sold on the condition that each user of the material make their own evaluation to determine the material's suitability for their own particular use.

**TEST RESULTS (Small Scale)**

Flame Exposure (Seconds)	No. 10 Treated Shingle Time to Self Extinguish (Seconds)
15 .....	1
30 .....	2
60 .....	3
90 .....	6
120 .....	15

**CONTROL (Untreated Shingle)**

15 .....	4
30 .....	Continuous Burning

**TEST RESULTS (FULL SCALE)**

**FIRE HAZARD CLASSIFICATION**

Flame Spread Rating. Class "B" (\*). When applied to No. 1 grade. RED CEDAR SHINGLES and tested in accordance with ASTM E-84, the treatment obtained the following fire hazard classification.

SYSTEM DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO CEDAR SHINGLES)	
	Flame Spread	Smoke Developed
SEALER - None Type No. 10 applied in two coats at 300 sq. ft./U.S. gal. (7.4 m <sup>2</sup> /L) TOP COAT - None	35	690

(\*). Class "B" fire retardant rating per NFPA 703, section 2-2.1.3