



FIRE Retardants Inc.™

The Decision You Make May Save A Life!

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Visit Our Web Site at www.fireretardantsinc.com

BURN BARRIER NO. 167

A Mineral Spirit Bass, Alkyd Type

**Fire Retardant Varnish Overcoat for No. 166
Fire Hazard Classification, CLASS "A" (*)**

DESCRIPTION:

A Class "A" fire retardant varnish overcoat. Used as a topcoat for No. 166 intumescent fire retardant varnish. No. 167 is available in three sheens, low, semi or hi-gloss. No. 166 fire retardant varnish must be applied prior to the application of No. 167, to achieve a Class "A" fire rating.

RECOMMENDED USES:

The use of No. 167 as a topcoat over No. 166, greatly improves the durability, and cleansibility of No. 166. We recommend that No. 167 be used to topcoat No. 166 on all surfaces that will be subjected to washing, handling or where a low, semi or hi-gloss finish is desired.

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.

PERFORMANCE INFORMATION:

- Class "A" fire rated on combustible surfaces when used over No. 166 intumescent fire retardant varnish. (See fire hazard classification section)
- Complies with federal, state, local building and fire code requirements. Dries by solvent evaporation to a tough, durable, clear finish, available in low, semi and hi-gloss.
- Meets all present lead and ecological regulations - Photochemically nonreactive according to Rule 102.
- Greatly improves the durability and cleansibility of No. 166.

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CHARACTERISTICS:

Finish Clear
 Low-gloss 12-18 units @60°
 Semi-gloss, 45-55 units @60°
 Hi-gloss, 85-95 units @60°

Spreading Rate
Per Coat 600 to 800 sq.ft./gal.
 (14.7 to 19.6 m²/L.)
 2 to 2.7 mils 235, 0.6 to 0.8 mils dry

Coverage at 1 Mil Dry . . . 490 sq. ft./gallon

Solids by Weight 43% ± 2%

Solids by Volume 31% ± 2%

Drying Time @ 77°F (25°C) & 50% R.H.

To touch 4 hour
 To handle 8 hours
 To Recoat 24 hours

Type of Cure Solvent Evaporation

Flash Point
of Liquid Coating 105°F (40.6°C)
 (Pensky-Martens closed cup)

Reducer/Cleaner Mineral Spirits

Shelf Life 6 months (unopened)

Packaging 1 & 5 gal. containers
 weight/gal. 7.8 ± 0.2 lbs.

Shipping Weight 4 gals. - 35 lbs.
 5 gals. - 42 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:

After the application of BURN BARRIER No. 166 Class "A" Fire Retardant "intumescent" Varnish has been completed, allow the surface to dry a minimum of 48 hours. Remove all dust, dirt, etc. from the surface, before applying Flame Control No. 167.

APPLICATION:

BURN BARRIER No. 167 Overcoat can be applied by brush, roller or spray. Stir material well before using, then apply a uniform coat at a coverage rate of 600 to 800 sq. ft./U.S. gallon (14.7 to 19.6m²/L). In hard use areas or where excessive wear is expected, a second coat is suggested. Allow at least 24 hours drying time between coats. To conform with surface burning characteristics established for this varnish, dilution of the varnish 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 11.5 CFM, 50 psi
 fluid 15 psi
 Gun Graco 217-800 to 217-816
 Type External Mix
 Reduction Up to 7%

Airless Spray

Pump Super Stinger *
 Fluid pressure 1625 psi
 Strainer 100 Mesh
 Fluid Hose 3/4" diameter
 Gun G-10N
 Tip012 - .017
 Reduction Up to 7%

* Minimum



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Fire Hazard Classification, CLASS "A" (*)**

FIRE HAZARD CLASSIFICATION

Flame Spread Rating. Class "A" for No. 166 and no. 167 coating system. When tested in accordance with ASTM E-84 (NFPA 255), the coating obtained the following UNDERWRITERS' LABORATORIES fire hazard classification.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO DOUGLAS FIR)	
	Flame Spread	Smoke Developed
SEALER – Type 6 applied in one coat at 400 sq. ft./US gal (9.8 m ² /l.) BASE COAT – Type 166 applied in two coats at 300 sq. ft./U.S. gal. (7.4 m ² /l.) TOP COAT – Type 167 applied in one coat at 1800 sq. ft./US gal (44.2 m ² /l.)	15	30-50

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.

Revised 02/07