

**DESCRIPTION:**

Flame Control No. 167 is 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 cleaning, 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, provincial, 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.

**CHARACTERISTICS:**

**Finish** ..... Clear  
Low-gloss, Semi-gloss, Hi-gloss

**Spreading Rate**  
**Per Coat** ..... 600 to 800 sq.ft/gal.  
(14.7 to 19.6 m<sup>2</sup>/L)  
2 to 2.7 mils wet, 0.7 to 0.9 mils dry

**Solids by Weight** ..... 46% ± 2%

**Solids by Volume** ..... 33% ± 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** ..... 2 years (unopened)

**Packaging** ..... 1 & 5 gal. containers  
weight/gal. 8.0 ± 0.2 lbs.

\* Also available in 12 oz Aerosol Cans

**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.**

**CLEANING AND MAINTENANCE:**

Never use water or water based cleaners to clean surfaces finished with this system. Use of water or water based cleaners will cause the surface to turn milky. Only use oil based wood surface cleaners such as those used for cleaning furniture.

**Read MSDS before opening containers.**

**KEEP OUT OF REACH OF CHILDREN**

**SURFACE PREPARTION:**

After the application of Flame Control 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:**

Flame Control 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 19.6m<sup>2</sup>/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).

# FLAME CONTROL NO. 167

A Mineral Spirit Base, Alkyd Type

## Fire Retardant Varnish Overcoat for No. 166

Fire Hazard Classification, CAN/ULC S-102, CLASS "A" (\*)

(\*) When Used With Flame Control No. 166

### 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

#### Titan 440 Impact (or Equivalent)

Pump  
Fluid Pressure. . . . . 2000-2400 psi

Manifold Filter . . . . . 60 Mesh

Gun Filter . . . . . 60 Mesh

Fluid Hose . . . . . ¼" diameter

Gun . . . . . LX-80 II

Tip. . . . . .010 - .013

Reduction . . . . . Up to 7%

### FIRE HAZARD CLASSIFICATION

Flame Spread Rating. Class "A" for No. 166 and no. 167 coating system. When tested in accordance with CAN/ULC S-102 (ASTM E-84), 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>SEALER</b> – Type 6 applied in one coat at 400 sq. ft./US gal (9.8 m <sup>2</sup> /L) <b>BASE COAT</b> – Type 166 applied in two coats at 300 sq. ft./U.S. gal. (7.4 m <sup>2</sup> /L) <b>TOP COAT</b> – Type 167 applied in one coat at 1800 sq. ft./US gal (44.2 m <sup>2</sup> /L)	15	40

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.