



# FLAME CONTROL NO. 167

A Mineral Spirit Base, Alkyd Type

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

## 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 handling or where a low, semi or hi-gloss finish is desired.

See Cleaning section for detailed cleaning instructions

## 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.

## 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.

**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 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).

## 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%



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## CLEANING INFORMATION:

Surfaces coated with fully cured 167 may be cleaned by several methods:

Method 1) Lightly wipe the surface with a clean, dry cloth.

Method 2) Lightly dampen a cloth with a mild solvent such as Naphtha or mineral spirits and gently wipe the surface.

It is not recommended to use water or a water/detergent combination to clean surfaces coated with the 166/167 varnish system.

## 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
<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 600 sq. ft./US gal (44.2 m <sup>2</sup> /L)	15	30-50

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