



# FLAME CONTROL 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:

Flame Control No. 10-10 is a Class "A", interior, mineral spirit based, flat, alkyd type, fire retardant paint, manufactured in accordance with Federal Specification TT-P-26C. No. 10-10 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. It is not recommended for a hourly rating on structural steel beams and columns.

### 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 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 current environmental regulations - Photochemically non-reactive according to Rule 102.

## CHARACTERISTICS:

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

**Color** . . . . . White, Off-White and 13 standard pastel colors

**Tinting** . . . . . Can be tinted up to 2 fl. oz. with Chroma-Chem #866 or Uni-Cal 66 colorant. Check colorant for compatibility, using about 2 fl. oz. of No. 10-10 and 4-6 drops of colorant. Mix well, and check for gelling, precipitation, or other adverse reaction. Allow sample to sit overnight, before proceeding.

**Spreading Rate** . . . . . 190 - 230 sq. ft./gal. (5.6 m<sup>2</sup>/L)  
7.6 mils wet, 3.9 mils dry

**V.O.C. Less Than** 3.1 lbs./gal. (377 g/L)

**Volume Solids** . . . . . 52% ± 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** . . . . . 1 year (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:

**CAUTION! COMBUSTIBLE! VAPOR HARMFUL.** CONTAINS: MINERAL SPIRITS AND PETROLEUM DISTILLATES.

MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS; HEADACHE OR NAUSEA; CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION.

NOTICE: Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Keep away from heat, sparks and flame. VAPORS MAY CAUSE FLASH FIRE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

### USE WITH ADEQUATE VENTILATION:

Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close the container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

### FIRST AID:

If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention. For skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

**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.



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### NEW SURFACES:

New wood, fiberboard and other surfaces having uneven or excessive porosity should be sealed with Flame Control 3001 Alkyd 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

### 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

**Titan 440 Impact** (or Equivalent)  
Pump  
Fluid Pressure. . . . . 2100-2600 psi  
Manifold Filter . . . . . 60 Mesh  
Gun Filter . . . . . 60 Mesh  
Fluid Hose . . . . . ¼" diameter  
Gun . . . . . LX-80 II  
Tip. . . . . .017 - .021  
Reduction . . . . . Up to 7%

### 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.

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