Flame Control Coatings Canada Ltd.
75 Chambers Drive, Unit 9, Ajax, Ontario, L1Z 1E1 (905) 619-0115

FLAME CONTROL NO. 10-10A

A Mineral Spirit Based, Flat Alkyd Type

V.O.C. Compliant Intumescent Fire Retardant Paint

Fire Hazard Classification, CAN/ULC S-102, Class "A" also up to 60 minutes (1 hour) per NFPA 703 & BOCA 1702-4.1

DESCRIPTION:

Flame Control No. 10-10A is a V.O.C. Compliant Class "A", interior, mineral spirit based, flat, alkyd type, fire retardant paint, manufactured in accordance with Federal Specification TT-P-26C. No. 10-10A 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 desirous 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. 10-10A 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, provincial, 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 present VOC and environmental/ecological regulations

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 Color Trend #844 or Uni-Cal 66 colorant. Check colorant for compatibility, using about 2 fl. oz. of No. 10-10A 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 . . . . . 230 sq. ft./gal. (5.6 m^2/L) 7 mils wet, 3.5 mils dry

V.O.C. Less Than . . . . . 2.74. lbs./gal.(329 g/L)

Volume Solids . . . . . 51% ± 2

Weight Solids . . . . . 66% ± 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. . . . . 105°F (40.6°C) (Pensky-Martens Closed Cup)

Reducer/Cleaner . Mineral Spirits or VM & P Naphtha

Shelf Life. . . . .24 months (unopened)

Packaging . . . . . 1 & 5 gal. containers weight/gal. 11 ± 0.2 Ibs.

*** Also available in 12 oz Aerosol Cans**

Shipping weight . . . . 4 gals - 48 lbs.
5 gals - 58 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:

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.

NEW SURFACES:
New wood, fiberboard and other surfaces having uneven or excessive porosity should be sealed with Flame Control No. 3003 Acrylic Primer and allowed to dry a minimum of 3 - 4 hours before applying No. 10-10A. On new drywall and other non-combustible surfaces, use only Flame Control 40-40A. New ferrous metal surfaces must be primed. Apply Flame Control No. 3004A Universal Metal Primer. Allow to dry 45 miniutes or until hard, before applying No. 10-10A. Note: No. 10-10A will not give a fire resistive rating on metal surfaces.

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FLAME CONTROL NO. 10-10A

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V.O.C. Compliant 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

PREVIOUSLY PAINTED SURFACES:

No. 10-10A 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. 10-10A.

APPLICATION:

Mix paint thoroughly by boxing or stirring. No. 10-10A 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:

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 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
PRIMER – None **BASE COAT** – Type 10-10A applied in one coat at 230 sq. ft./U.S. gal. (5.6 m^2/L) **TOP COAT** - None	10	15
PRIMER – None **BASE COAT** – Type 10-10A applied in one coat at 190 sq. ft./U.S. gal. (4.7 m^2/L) **TOP COAT** – Type 40-40A applied in one coat at 625 sq. ft./U.S. gal (15.3 m^2/L)	10	15

60 MINUTE FIRE TEST

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO DOUGLAS FIR PLYWOOD) Flame Spread	Smoke Developed
PRIMER – None **BASE COAT** – Type 10-10 applied in two coat at 250 sq. ft./U.S. gal. (6.1 m^2/L)/coat **TOP COAT** – 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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