

**DESCRIPTION:**

Flame Control No. 20-20A is a V.O.C. Compliant Class "A", interior, low VOC, water base, flat latex, fire retardant paint, manufactured in accordance with Federal Specification TT-P-001932. May also be used on exterior applications where protected from direct weathering, such as under siding or where protected by other exterior treatments. This coating dries quickly to a flat finish, having the appearance of a conventional flat latex paint. In the presence of heat or flame the coating puffs up (intumesces) and forms a thick, sponge like cellular foam layer; this foam layer insulates the substrate reducing the penetration of heat, thus retarding the flame spread and delaying structural failure.

**RECOMMENDED USES:**

For application on combustible surfaces where it is either necessary or desirable to reduce the surface burning characteristics of the substrate. May also be used on exterior applications such as on OSB or plywood to upgrade the sheet materials to non-flammable where siding, cladding, or other exterior treatments are to be installed as the finish surface treatment.

**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 fire retardant coatings are required.

**USE UNTOPCOATED OR TOPCOATED:**

Topcoating is not necessary for most applications; however, on surfaces requiring maximum washability and

cleansibility, or alternative colour or finish, No. 20-20A should be topcoated with Flame Control No. 40-40A Latex Fire Resistant Topcoat or similar equivalent good quality latex paint.

**PERFORMANCE INFORMATION:**

- Class "A" fire rated.
- Complies with federal, provincial, local building and fire code requirements.
- Dries by water evaporation to a tough, flexible, matte 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, Black

**Tinting** . . . . . Can be tinted up to 2 fl. oz. of Universal Tint. Check colorant for compatibility.

**Spreading**

**Rate** . . . . . 155 sq. ft./gal. (3.8 m<sup>2</sup>/L)  
applied in one or two coats  
10.4 mils wet, 4.8 mils dry

**V.O.C.** . . . . . 0.38 lbs./gal. (45 g/L)

**Volume Solids** . . . . . 46% ± 2

**Weight Solids** . . . . . 59% ± 2

**Drying Time @**

**77°F & 50% RH:** . . . . . To touch 30 min.  
To handle 1-2 hours  
To recoat 2 to 4 hours

**Type of Cure** . . . . . Coalescence

**Flash Point** . . . . . None  
(Pensky-Martens Closed Cup)

**Reducer/Cleaner** . . . . . Water

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

**Packaging** . . . . . 1 & 5 gal. containers  
weight/gal. 10.9 ± 0.2 lbs.

**Shipping weight** . . . . . 4 gals - 45 lbs.  
5 gals - 55 lbs.

**Application** . . . . . Brush, roller,  
conventional and airless spray

**PRECAUTIONS:**

Adequate ventilation must be provided during and after application until the coating has dried. Avoid breathing vapors 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 excess porosity should be sealed/primed with a good quality primer appropriate for the surface being protected and allowed to completely dry before applying No. 20-20A. New ferrous metal surfaces must be primed with a universal metal primer. Primer should be allowed to completely cure before applying No. 20-20A. **Note:** Specific fire resistive rating for 20-20A on metal surfaces has not been determined.

For best results, all new surfaces should be primed with a primer that is appropriate for the surface.

**PREVIOUSLY PAINTED SURFACES:**

No. 20-20A 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 applying No. 20-20A.

Fire Hazard Classification, CAN/ULC S-102, Class "A"  
also up to 30 minutes (1/2 hour) per NFPA 703 & BOCA 1702-4.1

**APPLICATION:**

Mix paint thoroughly by boxing or stirring. Use full bodied coat for most applications; where thinning is necessary, use only water, not in excess of 1/2 pint per gallon. No. 20-20A can be applied by brush, roller, conventional or airless spray. Suggested coverage rate is 155 sq. ft./U.S. gallon (3.8 m<sup>2</sup>/L) applied in one or two coats. 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 temperatures are below 50°F (10°C). Protect from freezing.

**APPLICATION EQUIPMENT:**

**Airless Spray**

Fluid Pressure . . . . . 2500 psi  
Strainer . . . . . 80 Mesh  
Fluid Hose . . . . . 1/4" diameter  
Tip . . . . . .021 - .026  
Reduction . . . . . Up to 7%

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.

**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 INC. AND 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 20-20A applied in one coat at 155 sq. ft./U.S. gal. (3.8 m <sup>2</sup> /L) TOP COAT - None	5	40
PRIMER – None BASE COAT – Type 20-20A applied in one coat at 155 sq. ft./U.S. gal. (3.8 m <sup>2</sup> /L) TOP COAT – Type 40-40A applied in one coat at 625 sq. ft./U.S. gal (15.3 m <sup>2</sup> /L)	10	15

Flame Spread Rating. Class "A" when tested in accordance with ASTM E-84 (equivalent to CAN/ULC S-102), the coating obtained the following INTERTEK fire hazard classification.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO OSB – Oriented Strand Board)	
	Flame Spread	Smoke Developed
PRIMER – None BASE COAT – Type 20-20A applied in one or two coats at 160 sq. ft./U.S. gal. (3.8 m <sup>2</sup> /L) TOP COAT - None	25	35

**30 MINUTE FIRE TEST**

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO DOUGLAS FIR PLYWOOD)	
	Flame Spread	Smoke Developed
PRIMER – None BASE COAT – Type 20-20A applied in two coats at 200 sq. ft./U.S. gal. (4.9 m <sup>2</sup> /L) TOP COAT - None	(*) 0	(*) 35

(\*) The test was conducted for a total time period of 30 minutes. There was no evidence of significant progressive combustion at the 30 minute period.