

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. 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 to all interior 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 or cladding is 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, No. 20-20A should be topcoated with Flame Control No. 40-40A Low-Gloss Latex Fire Resistant Coating.

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, Off-White and 13 standard pastel colors

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

Spreading Rate 155 sq. ft./gal. (3.8 m²/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 with Flame Control No. 3003 Acrylic Primer and allowed to completely dry before applying No. 20-20A. New ferrous metal surfaces must be primed. Apply Flame Control No. 3004 Universal Metal Primer and allow to completely cure before applying No. 20-20A. **Note:** No. 20-20A will not give a fire resistive rating on metal surfaces.

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 m²/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%

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 or two coats at 155 sq. ft./U.S. gal. (3.8 m ² /L) TOP COAT - None | 5 | 40 |

Flame Spread Rating. Class "A" when tested in accordance with ASTM E-84 (similar 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 ² /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 ² /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.

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.