QUANTUM Chemical
High Performance Coatings

INTUMESCENT FIRE PROTECTION

SafeCoat® Latex

Prevents Flame Spread
Fire is a threat to life and property as it rushes through many types of building materials with alarming speed. Fire takes advantage of unprotected surfaces and areas concealed from fire fighters.

Meets Fire and Building Codes
Fire safety codes are the first line of defense against the destructive force of fire. Products and designs which satisfy these codes save lives and money. Code compliance requires a number of design considerations including a combination of fire separations, sprinklers and coatings**.**

Protection from Fire and Smoke
SafeCoat® Latex is a highly effective intumescent coating that reacts to fire or heat by expanding to many times its original dry film thickness. The expanded material forms a char which insulates against the heat of fire and reduces available oxygen to the surface. This limits flame spread and the amount of smoke developed.

Wide Range of Applications
SafeCoat® Latex will protect many combustible building materials including wooden surfaces, joists, beams, acoustic tile, timbers, open surface panel board, previously painted wallboard, hardwoods, softwoods, drywall, SPF plywood and OSB.

Alternate to Drywall
When a more resilient, durable surface than drywall is required, plywood or OSB coated with **SafeCoat® Latex** can provide an inexpensive and effective way to satisfy the Code for a Class A Flame Spread and Smoke Developed Rating.

Left: SafeCoat® *coated interior roof space and an untreated roof space under identical fire conditions.* ***Right:*** *According to the NFPA-13 Standard, installation of sprinkler systems are not required if the exposed combustible materials have 25 or less/Class A Flame Spread, re-classifying them as non-combustibles.*

ULC Tested and Listed
SafeCoat® Latex is recognized by Fire and Building Code Officials throughout North America. Class A Flame Spread Ratings can be achieved on OSB, SPF (spruce, pine, fir, Douglas Fir Plywood, and more).

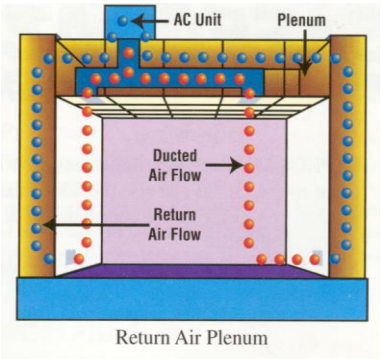
SafeCoat® Latex has been tested and approved by ULC under CAN/ULC-S102 for the Canadian market and ASTM E84 for the US market.

Effective
SafeCoat® Latex offers significant reduction in flame spread and smoke developed ratings, acting as an ignition barrier on many combustible surfaces.

Labor Saving
SafeCoat® Latex is an interior, single-component, latex-based, intumescent fire retardant coating applied by brush, roller or sprayer. It cleans up easily with warm, soapy water and is quick drying.

Wide Range of Colors
SafeCoat® Latex is white and may be tinted lighter colors or top coated with one coat of another compatible latex for darker shades or alternative sheens. It is available in black as a special order.

Environmentally Friendly
SafeCoat® Latex is environmentally safe, being non-toxic with low VOCs. It contains no asbestos, halogens, solvents, or dangerous chemicals.



Above: *Municipal building codes typically require return air plenum spaces to have flame spread ratings of 25 or less and smoke developed ratings of 50 or less.* ***SafeCoat®*** *satisfies these standards. Using* ***SafeCoat®*** *in lieu of a return air duct in combustible buildings improves overall efficiency which usually allows for smaller HVAC units, reduced duct installation costs, and lower maintenance costs.*

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INTUMESCENT FIRE PROTECTION

DESCRIPTION

SafeCoat® Latex Intumescent Coating is a single-component latex, intumescent fire retardant coating suited for interior applications on various combustible substrates including SPF Plywood (Spruce/Pine/Fir), Oriented Strand Board (OSB), wood trusses and rough stud construction, where Flame Spread Ratings of 25 or less ("Class A" or Class 1) and low Smoke Developed Ratings are required. It limits flame spread by expanding to many times the original dry film thickness when exposed to heat. This expanded material forms a char which insulates the substrate against heat, and reduces available oxygen to the surface. It provides a "**Class A**" Flame Spread rating of 25 or less as tested under **ASTM E84** and **CAN/ULC S102** standards. **SafeCoat® Latex** is certified with UL/ULC listings for this rating.

USES

- Imparts a Class A Flame Spread Rating to dimensional lumber, plywood and Oriented Strand Board (OSB)
- Replaces sprinklers in combustible concealed spaces, under NFPA-13
- Can be applied as a mandatory upgrade to assist owners and property managers to meet the latest fire and building code requirements or as a voluntary upgrade to lower fire risks
- Used in lieu of drywall for Class A Flame Spread on plywood and OSB, providing greater strength and resilience than drywall

FEATURES

- **Non-toxic:** contains no asbestos, harmful ingredients, halogens or solvents and has low VOCs
- **Cost-effective:** applied at 150 ft.^{2}/USG, to achieve a "Class A" flame spread rating
- **Fire-resistant:** will not burn in liquid or solid state
- Under fire conditions, it forms a char, preventing the spread of flames, and slowing the penetration of heat through the substrate
- Has excellent **adhesion** and **durability**
- **Tintable:** use a latex based "universal tint"
- **User-Friendly**: can be spray, brush, or roller applied

PROPERTIES

Coating Type	Latex
Finish	White, flat finish
Color	Standard: White Special Order: Black
Tinting	May be tinted (light colors only) Use standard latex or universal colorants. Do not exceed 26 mL of tint per liter of **SafeCoat® Latex**.
Specific Gravity	10.9 lbs./US Gallon or 1.30 g/mL
Solids by Weight	58%
Solids by Volume	47%
Perm Rate	25
VOC	25 g/l or 0.2 lbs./USG
Dry Time	**Touch**: 30 minutes to 1 hour (varies with temperature and humidity) **Recoat**: 1 to 2 hours **Full cure:** 48 hours
Flash Point	No Flash
Storage Limits	Keep from freezing (above 50° F, 10°C required)
Shelf Life	24 months
Packaging	Available in one, five, 55 and 275 US gallon quantities

CERTIFICATION

Each container bears a label with the following marks:

UL CERTIFIED

SAFETY US·CA
SÛRETÉ US·CA
R19565

MPI #64 LISTED

Listing is BMQX.R19565. (QR Code for Listing access.)

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