



SafeCoat[®] HB (High Build) Fire Retardant Coating for Exterior Application

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PRODUCT DESCRIPTION

SafeCoat HB is a latex-based, intumescent fire retardant coating designed to withstand various weather conditions. It provides optimum protection against grass, wild and flash fires, when applied at a rate of 30(+) mils or 50 ft²/gal. It is ideally suited for exterior applications to combustible materials such as but not limited to, fences and fence posts, barns, utility poles and decks.

Apply **SafeCoat High Build (HB)** at a rate of 30 mils, or roughly 50 ft²/US gal. Ensure the substrate is free of debris and dry. Following standard coating practices will ensure the product functions to specifications. Contact distributor or manufacturer before applying if questions arise concerning application or suitability.

TECHNICAL DATA and PROPERTIES

Coating Type/Color White Latex

Tinting	May be tinted. Use standard latex or universal colorants.
Specific Gravity	10.9 lbs/US Gallon or 1.30 g/mL
Solids by Weight	58%
Solids by Volume	47%
VOC	16.3 g/L or 0.14 lbs./USG
Dry Time	Touch: 30 min. to 1 hour (Varies with temperature and humidity) Full Cure: 48 hours
Film Thickness	Wet 30 mils
Flash Point	No Flash
Storage Limits	Keep from freezing (above 50° F recommended)
Shelf Life	24 months
Packaging	Available in one, five and fifty US Gallon quantities

TEST RESULTS

Intertek Testing Laboratories

Testing was conducted in accordance with **ASTM E84** and **CAN4-S102** "Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies" by Underwriters Laboratories of Canada. Following is a summary of the results of those tests.

Material	¹ FSR	² SDC
Douglas Fir Lumber, coated by SafeCoat Latex with a single coat at a rate of 3.7 m ² per liter	5	5
S-P-F Plywood coated by SafeCoat Latex with a single coat of SafeCoat 725 Overcoat at 7.4m ² per liter. ³	5	0
Oriented Strand Board 10mm nominal thickness, coated by SafeCoat Latex with a single coat at a rate of 3.7m ² per liter.	10	10-25

¹FSR - flame spread rating

²SDC - smoke developed classification

³**SafeCoat 725** is not a fire retardant but is used solely to change the gloss and scrubability of the **SafeCoat Latex**

INSTRUCTIONS FOR USE

Surface Preparation:

All surface preparation should be carried out in accordance with good painting practices. Remove all loose, peeling or powdery paint from the surface. All dirt, grease, oil, wax and other foreign material must be removed with a suitable cleaner and allowed to thoroughly dry. Repair all cracks, holes and surface imperfections. All smooth or glossy surfaces should be dulled with sandpaper. New wood surfaces which will be exposed should be coated with a suitable sealer such as **SafeCoat 725** to prevent tannin staining of the **SafeCoat Latex** topcoat. This is particularly recommended when coating Oriented Strand Board.

Application:

SafeCoat Latex Fire Retardant Coating can be applied by brush, roller or airless spray. Airless equipment is most desirable. Use Graco Model 450 or larger or other long-stroke piston type units. Alternatives include gravity fed "Hero" or other diaphragm units. Use a 16 to 21 thousand aperture, with a 12" fan for optimum results. Apply uniformly to entire surface. If thinning is required use clean water only and do not exceed 200 mL per gallon. Surface and ambient temperature must be maintained at greater than 50F (10C) during application and must remain so for at least 48 hours following the application.

SafeCoat Latex is intended for interior use only. If the coated substrate will be subject to repeated washing or prolonged contact with moisture a finish coat of **SafeCoat 725** is recommended. Please note that the addition of any finishing coat will affect the flame spread rating and smoke developed classification. Before applying any finishing coat consult the manufacturer or their representative.

A wet film thickness gauge can be used at the start of the application to check that sufficient **SafeCoat Latex** has been applied. At an application rate of 150 ft²/USG the wet film thickness should be 11.7 mil and will yield a dry film thickness of 5.0 mil. The application of **SafeCoat Latex** should be uniform and leave no exposed uncoated surfaces or edges. If the lumber is pre-coated it should be checked after installation to ensure that construction procedures have not created any exposed uncoated areas.

Clean Up

All application tools can be easily cleaned with water. If product has dried on use hot soapy water to soften and remove it.

Precautions

SafeCoat Latex is not "WHMIS" regulated nor is it subject to the "Transportation of Dangerous Goods Act and Regulations". See MSDS for detailed precautions.

IDENTIFICATION and CERTIFICATION

Each container bears a label reading "**Underwriters Laboratories of Canada**" or "**Warnock Hersey Laboratories of Canada - Listed - Fire Retardant Coating.**"

GUARANTEE/WARRANTY

Recommendations for the use of our products are based on tests carried out at government approved labs. Manufacturer and seller are not responsible for results where the product is used under conditions beyond our control. Under no circumstances will Magna Coatings Technology Inc be liable for consequential damages or damages to anyone in excess of the purchase price of the product or services.