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SafeCoat® Exterior Intumescent Coating

PRODUCT DESCRIPTION

SafeCoat Exterior is an acrylic, solvent based paint which can be used in exterior or interior applications to achieve a flame spread of less than 25. **SafeCoat Exterior** is an intumescent fire retardant coating ideally suited for exterior and interior applications to SPF Plywood (Spruce/Pine/Fir), 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 is especially effective where exposure to moisture and UV radiation is a concern or coating is subject to repeated cleaning. 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, thus limiting flame spread to a "**Class A**" rating on SPF plywood, as tested under **CAN4-S0102-M88** standards, in a single coat application sprayed at 150 ft²/USG.

USES

- imparts a Class A Flame Spread Rating to dimensional lumber and plywood which is subject to the elements or is subject to repeated cleaning.
- used in lieu of drywall on plywood and OSB for greater strength and resilience.
- replace 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. It may also be applied as a voluntary upgrade to lower fire risks and reduce insurance costs.

FEATURES

- is **cost-effective**. A single coat applied at 150 ft²/USG achieves a "Class A" Flame Spread Rating.
- is **fire-resistant**. Under fire conditions, it forms a char, preventing the spread of flames, and slowing the penetration of heat through the substrate (Fire Endurance).
- has excellent **adhesion** and **durability**.
- may be **tinted** with a latex based "Universal Tint".

- will adhere to **metal** and acts as a **rust-inhibitor**.
- is **easy to apply** - may be applied by brush, roller or spray.
- dries quickly to a flat (matte) finish, having the appearance of conventional flat paint.

TECHNICAL DATA and PROPERTIES

Coating Type	Solvent Based
Finish	White, flat finish
Color	Standard: White Optional: Black
Tinting	May be tinted. Use universal colorants. Do not exceed 26 mL of tint per liter
Specific Gravity	10.0 lbs/US Gallon or 1.2 g/mL
Solids by Weight	66%
Solids by Volume	49%
VOC	431.3 g/l 3.6 lbs/USG
Dry Time	Touch: 30 min. to 1 hour (varies with temperature and humidity) Recoat: 1 to 2 hours Full cure: 48 hours (or more depending on drying conditions)
Film Thickness	Wet: 10.7 mils Dry: 5.2 mils
Flash Point	42°C (closed cup)
Storage Limits	Store in a cool dry place in a tightly sealed container. Keep away from ignition sources.
Shelf Life	24 months
Packaging	Available in one, five and fifty-five US gallon quantities.

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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 primer.

Application:

SafeCoat Exterior Fire Retardant Coating can be applied by brush, roller or airless spray. Airless equipment is most desirable. Use Graco Model 490 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 paint thinner and do not exceed 250 mL per gallon. Surface and ambient temperature must be maintained at greater than 35° F (2°C) during application and must remain so for at least 48 hours following the application.

SafeCoat Exterior/Interior is intended for exterior or interior use. An overcoat of **SafeCoat 725 Sealer/Overcoat** is highly desirable to improve longevity on exterior applications. If a higher sheen level is desired for aesthetic reasons or to improve scrub resistance, a finish coat of **SafeCoat 725 Sealer/Overcoat** 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.

Note: When applying an overcoat, ensure that **SafeCoat Exterior** is well cured and all solvents have dissipated from the coating.

A wet film thickness gauge can be used at the start of the application to check that sufficient **SafeCoat Exterior** has been applied. At an application rate of 150 ft²/USG the wet film thickness should be 10.7 mil and will yield a dry film thickness of 5.2 mil. The application of **SafeCoat Exterior** 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 paint thinner.

TEST RESULTS

Testing was conducted in accordance with **CAN4-S102-M88** "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 this test.

Test	I	¹ FSR	² SDC
SPF Plywood, 12.7 mm nominal thickness, coated by SafeCoat Exterior with a single coat at a rate of 3.7m ² per liter.		15	15-30

*FSR - flame spread rating

*SDC - smoke developed classification

NOTE: The flammability characteristics of different species of lumber vary. However, use of Spruce/Pine/Fir (SPF) which includes the most common building lumber provides an excellent basis for the comparison of various coatings.

Hazard Class:

WHMIS B.3, D.26
TDG Class 3, UN1263, Packing group III.
See MSDS for detailed precautions.

Precautions:

SafeCoat Exterior is "WHMIS" regulated and is subject to the "Transportation of Dangerous Goods Act and Regulations".

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 to anyone in excess of the purchase price of the product or services.