



EAGLE
SPECIALIZED
COATINGS
AND
PROTECTED
ENVIRONMENTS

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SafeCoat® Clear Fire Retardant Coating

PRODUCT DESCRIPTION

SafeCoat Clear Fire Retardant Coating is a two-component, VOC free, intumescent clear coating designed for application to wood surfaces where a Flame Spread Rating of 25 or less (Class A) is required. **SafeCoat Clear** limits the spread of flame by expanding to many times its original thickness when exposed to heat. The expanded char insulates the wood from heat and reduces the oxygen available to the wood surface.

SafeCoat Clear is suitable for interior and exterior applications requiring a Flame Spread Rating of 25 when tested in accordance with the **CAN/ULC S-102**, and a Flame Spread Rating of 15 (Class A) when tested to the **ASTM E-84-09**.

SafeCoat Clear dries to a satin-matte finish. This is a specialty product designed for fire resistance and is not a typical wood varnish or lacquer. It won't provide a hard flawless finish and may be unsuitable for some applications some high traffic areas as it can be scratched, or where a flawless fine finish is required.

FEATURES

- industrial, commercial, or residential interior and exterior wood where fire protection is required, while maintaining the beauty of natural wood
- meets flame spread for a wide range of applications
- labour saving - typically applied in one 8 mil coat or two 4 mil coats - no top coat required
- a sanding sealer coat may be used on porous wood to reduce absorption of the **SafeCoat Clear** into the wood and ensure the proper 8 mil thickness of this coating is achieved on the wood surface
- high solids - 0 VOC formula complies with LEED™
- may be applied by brush, roller or airless sprayer.

STORAGE

Store in a cool and dry place for product integrity. Store in tightly sealed containers to protect from moisture and foreign materials. Moisture contamination will result in significant reduction in pot-life.

AVAILABILITY

SafeCoat Clear is packaged in 3 gallon kits (2 gallons of Resin (Part A) and 1 gallon of Iso (Part B) and 15 gallon kits (2 pails of Resin (Part A) and 1 pail of Iso Part B). **SafeCoat Clear Reducer** is packaged in single gallon cans and 5 gallon pails.

TECHNICAL DATA and PROPERTIES

	Resin Part A	Iso Part B
Appearance:	Cream color liquid	Clear liquid
Specific Gravity:	1.492	1.199
Viscosity:	21,000 cPs	112 cPs
Solids by Weight:	100%	100%
Solids by Volume:	100%	100%
VOC Level:	Zero	Zero
Shelf Life:	12 months	12 months
Mixed Properties:		
Viscosity:	660 cPs	
Pot Life:	3 hours (or less)	
Coverage:	200 sq. ft./gal	18.58 m ² /L
Film Thickness:	Wet: 8.0 mils	Dry: 8.0 mil

The cure mechanism of **SafeCoat Clear** requires the presence of atmospheric humidity. The values listed below are based on room temperature and relative humidity of ~70%.

Dry Time: Touch: 2-3 hours; Recoat: 2-3 hours;
Tack Free: 8 hours; Full Cure: 48 hours

APPLICATION INSTRUCTIONS

Prior to application, proper surface preparation is required. Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, loose particles and rust. A sanding sealer coat may be used on wood to reduce absorption of the **SafeCoat Clear** into the wood, thus maximizing this product and ensuring proper mil thickness on the wood surface. Any sealer or stain must be fully cured to eliminate off-gassing and possible blistering of this product. This product is too soft to sand. Typically an 8 mil thickness can be achieved in one coat, however, on vertical surfaces two coats applied at 4 mils may be required to achieve a suitable finish. On close inspection this finish isn't completely smooth due to its fire retardant properties.

Mixing: This is a two-component, 2:1 system. First, mix **SafeCoat Clear Part A** thoroughly before use. Combine two parts **A** and one part **B** by volume. Use care when mixing to avoid incorporation of air. Mixing these two components should take no more than 1-1/2 minutes. Mix only the volume used within the pot-life. Can be applied by brush, roller, or spray. (Brush: recommended for polyurethane stains [heavy-duty]. Rollers: 18" epoxy. Spray: air-assisted airless, or airless with 14-16 thou tip.) To adjust viscosity use **SafeCoat Clear Reducer** or Xylene ~10% to maximum of 20%.) Clean up with a non-alcohol based paint thinner such as Xylene or Acetone.