



**PENGUIN ICE™**

**PROTECTIVE COATING FOR WOOD  
CERTIFIED CLASS A FLAME RETARDANT**

**Description**

Penguin Ice™ is a thin, highly versatile and functional coating that protects various wood materials and surfaces. Waterproof, flexible, mold and mildew resistant, termite and other pest resistant, this coating is applied in a very thin, transparent layer.

**Applications**

Penguin Ice™ is a Class A certified flame retardant selected for its ability to protect all types of wood products from deterioration due to insects, water, fungus and fire.

Penguin Ice™ can be applied to all interior and exterior wood products, whether they are ceilings, walls, architectural panels or floors. It is also used to protect lumber products and structures in the construction industry.

**Benefits**

- Very low VOCs
- Water based coating
- Very low odor product
- Varied and easy applications
- Fast drying time
- Requires little preparation
- Possibility of coloring the product
- Non-stick, non-marking finish
- Provides complete protection for wood materials and surfaces
- Interior and exterior applications

**Properties Table**

<b>Technology</b>	Acrylic copolymer	<b>Water Absorption</b>	< 5 %
<b>Wet Color</b>	Milky white	<b>Adhesion after immersion</b>	Excellent
<b>Dry finish</b>	Transparent and Matte	<b>Mecanical Stability</b>	Excellent
<b>Solids per weight</b>	18 %	<b>Mould Resistance</b>	Excellent
<b>Density</b>	1.025 g / mL	<b>Rot Resistance</b>	Very Good
<b>Viscosity</b>	< 100 cps	<b>Termite Resistance</b>	Excellent
<b>VOCs</b>	< 95 g / L	<b>Bacteria Resistance</b>	Excellent
<b>pH</b>	9	<b>Alkali Resistance</b>	Very Good
<b>Odor</b>	Low	<b>Hydrostatic Resistance</b>	Very Good



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**Product application information**

<b>Coverage</b>	170 to 400 sq. ft. / US gallon	<b>Application</b>	Sprayer / Roller / Brush
<b>Ambient Temperature</b>	7 °C (45 °F) minimum	<b>Ambient Humidity</b>	50 % to 65 %
<b>Time to dry</b>	30 minutes @ 21 °C (70 °F)	<b>Cleaning</b>	Soapy water
<b>Time before covering</b>	1 to 2 hours @ 21 °C (70 °F)	<b>Freeze Resistance</b>	None
<b>Product Preparation</b>	Mecanic mixer	<b>UV Resistance</b>	Low

**Coloration**

Penguin Ice™ can be tinted with common liquid dyes for paints and coatings to produce a variety of colors with different degrees of transparency.

**Drying**

The drying time of Penguin Ice™ may be affected by the ambient temperature and humidity during application, and by the temperature of the product during storage. For factory applications on automated lines, drying can be accelerated by fan and oven systems.

**Coverage**

<b>Wood sealant</b>	400 sq. ft. / US gallon	1.70 sq. meter / liter
<b>Flame retardant (Class B)</b>	170 to 400 sq. ft. / US gallon	0.70 - 1.70 sq. meter / liter
<b>Flame retardant (Class A)</b>	170 sq. ft. / US gallon	0.70 sq. meter / liter

**To obtain Class A**

Penguin Ice™ is certified as a Class A flame retardant with a wet application of 250 g/m<sup>2</sup> with a coverage of 170 sq. ft. per US gallon.

**For any other application**

For all other applications of Penguin Ice™, coverage can be up to 400 sq. ft. per US gallon with a wet application of 104.5 g /m<sup>2</sup>.

Warning : The more coverage you do with a single gallon, the less effective are the product properties. To ensure the compliance of your application, follow the specifications on the sheet.

**Product Certifications**

<b>ASTM E84</b>	Class A	Intertek	# 5021807
<b>CAN/ULC S102</b>	Class A	Intertek	# 5021807

