



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

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



PENGUIN ICE™

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

Product application information

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

Shelf Life

It is recommended that **Penguin Ice™** be used within one year of manufacture to ensure the quality of the product when applied. The product lot number, displayed on all Penguin Ice containers, indicates the date of manufacture with the first 6 digits. For example, for a lot number beginning with 230102, the product was manufactured on January 2, 2023.

Coverage

Wood sealant	400 sq. ft. / US gallon	9.82 sq. meter / liter
Flame retardant (Class B)	170 to 400 sq. ft. / US gallon	4.15 - 9.82 sq. meter / liter
Flame retardant (Class A)	170 sq. ft. / US gallon	4.15 sq. meter / liter

To obtain Class A

Penguin Ice™ is certified as a Class A flame retardant with a wet application of 250 g/m² 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 / m².
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

ASTM E84	Class A	Intertek	# 5021807
CAN/ULC S102	Class A	Intertek	# 5021807

