

# ICE Coating

## A Highly Reflective, High Solids, Acrylic Elastomeric Roof Coating

### FEATURES

- High Solids
- Single Component
- Low VOC
- Highly Reflective (White)

### BENEFITS

- Results in more waterproofing vs. lower solids products
- No mixing of multiple components or pot life limitations
- < 50 g/L
- Lowers rooftop temperatures resulting in less stress and potential energy savings

### DESCRIPTION

ICE Coating is a high solids, waterbased, heavy bodied elastomeric coating formulated with a nanotechnology-engineered blend of acrylic latex polymer. ICE Coating is asbestos free.

### BASIC USES

ICE Coating is used as a final surface coat with the ICE System and is also recommended over smooth asphaltic built up and modified bitumen roof systems. ICE Coating can also be used as a coating over Spray Polyurethane Foam (SPF) roofing systems as either a new coating or as a restoration coating over compatible and properly prepared existing coatings.

ICE Coating may be applied over single ply roof membranes such as EPDM, CSPE, PVC and PIB provided the surface is properly prepared and primed with Tremco SP Primer.

A roof coated with ICE Coating exceeds the requirements of California's Title 24 Energy Efficiency Standards and is listed with the Cool Roof Rating Council.

ICE Coating is an ENERGY STAR® certified roof product. When installed properly, this product will help reduce energy costs. Actual savings will vary based on geographic location and individual building characteristics. Consult the product manufacturer, roof contractor, or call 1-888-STARYES (1-888-782-7937) for more information. ENERGY STAR certification is valid for roofing products in the United States, but not in Canada. Natural Resources Canada (NRCan) has implemented an ENERGY STAR program which currently does not include roofing products.

Refer to UL Roofing Materials and Systems Directory and/or FM Approvals RoofNav for applicable system configurations.

### PACKAGING

ICE Coating is available in 5 gallon (19L) containers and 53 gallon (201L) plastic lined drums.

### COLOR

White

### GRADE

Brush, spray, roll

### STORAGE

Shelf life is one year in unopened containers. Store containers at temperatures above 45°F (7°C) and below 125°F (51°C). Do not allow containers to freeze. Store containers indoors.

### APPLICATION

#### RECOMMENDED APPLICATION EQUIPMENT:

**Airless Spray:** Pneumatic, hydraulic, or electric pump with a minimum 2,000 psi material output pressure and an output flow rate of 3 GPM or better. Reversible spray tip with a 0.035" to 0.052" orifice and a 40° to 60° spray fan. Material spray lines must be properly rated for the maximum working pressure of the pump being used.

**Brush:** China bristle, nylon/polyester or nylon.

**Surface Preparation:** All fresh applications of mastics and asphalt coatings require a minimum 30 day cure period prior to application of ICE.

## APPLICATION CONTINUED

## COVERAGE RATE

## CLEAN UP

## LIMITATIONS

# ICE Coating

Remove all dirt, dust, and other loose debris from the roof. Area to be coated must be a clean, sound, and dry surface.

All asphaltic surfaces, including granule surfaced modified bitumen membranes, require light priming with Tremprime WB, at a coverage rate of 200-400 sq ft/gal (4.9-9.8 m<sup>2</sup>/L). Allow primer to fully dry. Apply primer and coating the same day.

Power wash all single ply membranes. Repair surfaces as necessary. After repairs are fully cured, prime single ply surfaces with Tremco SP Primer. Allow primer to fully dry prior to application of ICE Coating.

Priming between coats of ICE Coating is not required, however, the base coat must be clean and dry.

**Application:** Mix each container thoroughly using a mechanical mixer prior to application.

Apply ICE Coating in a one coat or two coat application, based on temperature and weather conditions (see Temperature/ Humidity Chart). For two coat applications, allow first coat to fully dry to support foot traffic without tracking before application of second coat.

Drying time will vary based on weather conditions during application. Drying times will be longer under cool temperature, high humidity, and/or overcast conditions. Drying time will improve under sunny or breezy conditions.

Avoid foot traffic for 5 days minimum on final surface coat especially under high humidity conditions. Tracking may occur for approximately 1 week following application, especially under high humidity or cool ambient conditions. Consult your Tremco Representative for further recommendations.

4 gal/SQ (1.6 L/m<sup>2</sup>) for single coat applications. For two coat applications: Apply 2 gal/SQ (0.8 L/m<sup>2</sup>) per coat. This coverage provides approximately 45 dry mil film thickness.

Clean equipment with water prior to cure.

- Surfaces must be clean and free of dirt, dust, and other contaminants.
- Not intended for use in ponded areas.
- Do not apply if rain is expected within 24 hours.
- If temperatures are expected to drop below 50°F (10°C), do not apply if rain is expected within 48 hours.
- Do not apply to wet surfaces. Do not apply unless the ambient and surface temperatures are at least 5°F above the dew point.
- Do not apply or allow to cure under high humidity conditions above 90% RH, mist, or fog, such as what can occur in coastal or mountain areas.
- Do not apply unless temperatures are at least 45°F (7°C) and rising. Do not apply if temperatures are expected to drop below 45°F within 48 hours.
- Allow for a minimum 30 day cure period prior to application of ICE Coating over roof mastic and cold process roof systems, such as the BURmastic System.
- Do not apply over hot applied asphalt or coal tar pitch flood or glaze coats.
- Vertical surfaces require a 2 coat application to minimize the potential for sag of the coating.
- ICE Coating must be allowed time for sufficient cure prior to end of the day.
- Application must cease at least 4 hours prior to sunset.

# ICE Coating

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Density @ 77°F (25°C)	7.8 - 8.8 lbs/gal (0.815 kg/L)	ASTM D 1475
Viscosity @ 77°F (25°C)	>11,800 cP (11.8 Pa•s)	ASTM D 2196
Nonvolatile content	59% (by weight) 65% (by volume)	ASTM D 1644
Percent Solids	65% (by volume)	ASTM D 5201
Reflectance	83.2%	ASTM C 1549
Emissivity	0.83	ASTM C 1370
SRI (Solar Reflectance Index)	103 (initial) 75 (3 yr. aged)	ASTM E 1980
Asbestos content	none	EPA 600/R-93/116
VOC	39 g/L	ASTM D 3960

## CODES & APPROVALS

	<b>Initial Weathered</b>	
	<b>Solar Reflectance</b>	<b>0.83    0.63</b>
	<b>Thermal Emittance</b>	<b>0.83    0.86</b>
	Rated Product ID Number	0612-0005
Licensed Seller ID Number	0612	
Classification	Production Line	
<small>Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary.</small>		
<small>Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.</small>		



## MAINTENANCE

Your local Tremco Roofing sales representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

## PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

## TECHNICAL SUPPORT

Your local Tremco Roofing sales representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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