

# Polarcote FR

## A Highly Reflective, Fire Retardant, Elastomeric Roof Coating

### FEATURES

Water based

Highly reflective

### BENEFITS

- Meets VOC regulations
- Easy cleanup
- Low odor
- Keeps roof surface temperature down
- Reduces air conditioning loads

### DESCRIPTION

Polarcote FR is an intumescent, fire retardant, styrenated acrylic latex roof coating. Polarcote FR is highly reflective, elastomeric, and asbestos free.

### BASIC USES

Polarcote FR is used as a final surface coat over smooth asphalt emulsions, flashings, and modified bitumen membranes. Polarcote FR will reflect solar radiation, lower surface temperatures, and reduce roof deterioration. Polarcote FR will provide fire resistance to high sloped POWERply MB roof systems. Polarcote FR will intumesce and form a hard char when exposed to flame. This charred surface significantly reduces the potential for spread of flame across the roof surface.

Polarcote FR has been tested for reflective properties according to the standards of the Cool Roof Rating Council (CRRC) and is listed in the CRRC Rated Products Directory at [www.coolroofs.org/products/](http://www.coolroofs.org/products/) results.

Polarcote FR 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-STAR-YES (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

Polarcote FR is available in 5 gallon (19 liter) containers and 53 gallon (200 liter) plastic lined drums.

### COLOR

White

### GRADE

Brush, roll, spray

### STORAGE

One year in unopened containers.

### APPLICATION

#### RECOMMENDED APPLICATION EQUIPMENT:

**Airless Spray:** Pneumatic, hydraulic, or electric pump with a minimum 2,000 psi material output pressure. Reversible spray tip with a 0.017" to 0.025" 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.

**Surface Preparation:** All fresh applications of mastics and asphalt coatings require a minimum 30 day cure period prior to application of Polarcote FR. Remove all dirt, dust, and other loose debris from the roof. Area to be coated must be a clean, sound, and dry surface.

# Polarcote FR

## APPLICATION CONTINUED

Asphalt emulsion surfaces such as Tremlastic SP and must cure for 2 weeks and be lightly primed with Tremco SP Primer at a coverage rate of 200-400 sq ft/gal (4.9-9.8 m<sup>2</sup>/L). Allow primer to fully dry prior to the application of Polarcote FR, 1 hour minimum. Do not overprime.

Where Tremlastic SP has weathered for longer than 3 weeks, the surface must be powerwashed prior to priming with Tremco SP Primer.

Where Polarcote FR is part of a Tremco Roof System, refer to project specifications for further information.

**Application:** Mix each container thoroughly prior to application. Two coats are recommended. Apply the second coat after the first coat will support foot traffic without tracking. Avoid foot traffic on final coat for 24 hours.

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.

For best results, apply the second coat in a direction which is perpendicular to the first coat.

For spray application, take necessary precautions to avoid overspray.

100 sq ft/gal (2.5 m<sup>2</sup>/L) per coat. Two coats are recommended.

Soap and water

- Surfaces must be clean and free of dirt, dust, and other contaminants. Not intended for use in ponded 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 (7°C) within 48 hours of application.
- 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 when freezing temperatures are expected within 48 hours after application.
- Do not apply if rain is expected within 12 hours. If temperatures drop below 60°F (15°C), do not apply if rain is expected within 24 hours.
- Store containers at temperatures above 32°F (0°C).
- Do not allow containers to freeze. Store containers indoors in a heated area.
- Do not apply over hot applied asphalt or coal tar pitch flood or glaze coats.

## COVERAGE RATE


## CLEAN UP

## LIMITATIONS

## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE	TEST METHOD
Density @ 77°F (25°C)	12.2 lbs/gal (1.46 kg/L)	ASTM D 1475
Reflectance	83% - Initial, 66% - 3 Years aged	ASTM C1549
Thermal emittance	0.84 - Initial, 0.90 - 3 Years aged	ASTM C1371
SRI - Solar Reflective Index	103 - Initial, 80 - 3 Years aged	ASTM E1980
Viscosity @ 77°F (25°C)	15,000 cP (15 Pa•s)	ASTM D2196
Nonvolatile content	67%	ASTM D1644
VOC level	<50 g/L	ASTM D 3960

## CODES & APPROVALS

 COOL ROOF RATING COUNCIL®	<b>Initial Weathered</b>	
	<b>Solar Reflectance</b>	<b>0.83    0.66</b>
	<b>Thermal Emittance</b>	<b>0.84    0.90</b>
	Rated Product ID Number	0612-0002
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>		



# Polarcote FR

## 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.



[www.tremcroofing.com](http://www.tremcroofing.com)  
3735 Green Road  
Beachwood, Ohio 44122  
1.800.852.6013

220 Wicksteed Avenue  
Toronto, Ontario, M4H 1G7  
1.800.668.9879

Tremco Roofing and Building  
Maintenance is part of Tremco  
Construction Products Group.

Tremco is a US Registered trademark of Tremco CPG Inc.  
The information provided on this data page supersedes all previous data concerning this product and its application.  
The Statements provided concerning the materials shown are intended solely as a general guide for material usage and are believed to be true and accurate. Since the manner of use is beyond our control, Tremco DOES NOT MAKE NOR DOES IT AUTHORIZE ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PURPOSE, OR ANY OTHER WARRANTY, GUARANTEE OR REPRESENTATION, EXPRESSED OR IMPLIED, CONCERNING THIS MATERIAL EXCEPT THAT IT CONFORMS TO TREMCO'S PRODUCT SAMPLE. Buyer and user accept the product under those conditions and assume the risk of any failure, injury of person or property and loss or liability resulting from the handling, storage or use of the product, whether or not it is handled, stored, used in accordance with directions or specifications. UNDER NO CIRCUMSTANCE SHALL TREMCO BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM ANY BREACH OF WARRANTY. IN ALL CASES, TREMCO'S LIABILITY IS LIMITED, AT TREMCO'S OPTION, TO THE REPLACEMENT OF GOODS, OR THEIR VALUE, PROVEN TO BE DEFECTIVE IN MANUFACTURING.