



Architectural & Protective Coatings

TEX•COTE REFLECT•TECTM HEAT REFLECTIVE ROOF COATING

DESCRIPTION

REFLECT-TEC[™] is a high-performance roof coating system formulated to withstand the harshest climates while offering high solar reflectivity and emissivity so that roof surfaces stay cooler. This water based fluoropolymer / acrylic coating is breathable, yet offers superior resistance to UV, rain, wind, dirt, mold and mildew. REFLECT-TEC[™] reduces the amount of heat transfer into buildings by reflecting away the sun 's infrared energy. This highly reflective coating can reduce peak

APPLICATION

Installation

TEX • COTE® REFLECT-TEC[™] can be applied by brush, roller, or commercial grade airless. Commercial grade airless tip size .017 to .019.

Surface Preparation

All surfaces must be sound, clean, dry, and free of contamination such as mildew, dirt, grease, oils, chalk and any other contamination that may affect adhesion prior to application of the TEX •COTE® REFLECT-TEC[™] system. All loose, flaking or oxidized paint shall be removed from surface by sand blasting, water blasting, wire brushing or scraping. Mold, mildew, and fungi must be completely and thoroughly removed using a commercial grade mildew wash prior to applying any coatings. Priming is required on all surfaces prior to application of REFLECT-TEC[™] Roof Coating.

Priming

Previously Finished Metal: TCA TEX-BOND[™] Primer is recommended on hard, slick, or weathered coatings as a bonding coat. If in sound condition, apply a test area of the primer and allow to

BEST PERFORMANCE

- •Do not apply material when snow, rain, or freezing conditions are imminent. Wet conditions combined with cold temperatures may cause improper curing of product.
- •Application temperature shall be between $45^{\circ}F$ rising to $100^{\circ}F$ ($7^{\circ}C$ to 38° C).

cooling loads by as much as 25%, even in darker colors. Available in both satin and semi-gloss finishes

FEATURES

- Advanced resin system.
- Offered in a wide range of heatreflective colors.
- Mildew and dirt resistant finish.
- Resists rain, wind, ice, and snow.
- Superior fade resistance in all colors
- Flexible and breathable film.

BENEFITS

• Total Solar Reflectance Values (TSR) exceed Energy Star and Title 24 standards for steep-sloped roofs in all standard colors.

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RECOMMENDED OVER

- Cement, Clay and Metal S-style roofing tiles
- Flat and standing seam metal roofing where refinishing is necessary.
- Recommended for sloped roofs only. NOT intended for flat roof applications.

cure overnight, then test adhesion by cross-hatch method. If adhesion is poor, then mechanical abrasion such as sanding may be necessary followed by retesting the adhesion of primer. Apply at 350-400 square feet per gallon, making sure that a white, opaque primed surface is achieved.

Bare Metal: TCA METAL-PRIME[™] Corrosion Resistant Primer is recommended over bare galvanized, aluminum, galvalum, or cold rolled steel surfaces. All rust should be removed by sandblasting or other mechanical means. Apply at 300-400 square feet per gallon.

S Style Roofing Tiles: TCA TEX-BOND[™] Primer is recommended at a spread rate of 250-350 square feet per gallon, making sure that all pores are adequately sealed and a white, opaque primed surface is achieved. Two primer coats may be required depending upon the porosity of the surface.

REFLECT-TEC™ Application Rate

Coverage rates will be between 175-225 square feet per gallon (4.9 to 6.0 square meters/liter). Two coats are recommended at 400 square feet per gallon,

•Do not apply if rain is imminent.

- •AVOID FREEZING.
- •Surfaces shall be clean, dry and properly prepared.
- •Formulated for use over TEX-COTE® approved primers only.
- •Products shall be handled and stored as indicated herein.
- •Trim areas, metals and other substrates

depending on surface porosity and texture. Deep tone colors require application in two coats at a minimum of 300-350 square feet per gallon each. Some deep tone colors may require more product depending on the color. An actual mockup should be done prior to application to determine proper square footage per gallon for the color chosen. Apply by airless spray recommended. Back rolling be required depending on the porosity of the substrate.

REFLECT-TEC[™] Application

Over a dry, clean, properly prepared surface, apply REFLECT-TEC[™] Roof Coating at the specified application rate. Application shall be at uniform film thickness over the entire roof surface. A wet edge shall be maintained during application at all times. To prevent lap marks, avoid starting and stopping midway on surfaces. Two (2) people spraying simultaneously may be required to avoid lap marks and inconsistent spray patterns.

Drying/Curing Times

To touch: 2 hrs. approximately Hardness: 24 hrs.

may require another TCA primer. Consult manufacturer or representative for recommendations.

•TCA does not promote or recommend coating the sealant joints, nor is the sealant compound an approved substance.

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TECHNICAL DATA

REFLECT-TEC™ Ap	plicable Standards Am	erican Society for	Testing Materials (AST	M)	
Test Method	Property	Property		Result	
ASTM 4587-11	Accelerated Weather	Accelerated Weathering		Passed—3000 Hours Total	
ASTM B117	Salt Spray Resistanc	Salt Spray Resistance		Passed—500 Hours, Rust 9, Scribe Creep 2 mm	
ASTM D714	Blistering Resistance	Blistering Resistance		Passed—No Blistering, 10 Rating	
ASTM D522	Flexibility—1/8 " Mar	Flexibility—1/8 " Mandrel Bend		Passed—No Cracking or Splitting of Film	
ASTM D4803-97	Total Solar Reflectan	Total Solar Reflectance		Surface wall temperature reduced up to 40 degrees Fahrenheit depending on color and geographical location as compared to commercial acrylic paint.	
ASTM E 84	Surface Burning Cha	Surface Burning Characteristics		Test Pending	
Physical Properties			Additional Product Info	Additional Product Information	
Solids by Weight 40-52% Solids by Volume 33-37% Weight per Gallon 9.3-10.8 lbs. VOC < 50 grams/liter < 0.42 lb/gal *Specific properties based on base used for chosen color and STD REFLECT-TEC [™] High Performance Roof Coating Standard Colors			Resin Type Available Finishes Dry Time Film Thickness Spread Rate: Total Solar Reflectance Color Ranges by %	Kynar®/Acrylic Semi-Gloss/Satin To touch: 1-2 hr Recoat:: 4 hr 8-10 mils wet 300-400 ft²/gal	
	ectance SRI = Solar Re				
Color	TSR	SRI*	Light Colors	25% - 35%	
Wheat Field	68.0%	0.83	Medium Colors	55% - 65%	
Prominent Gray	62.6%	0.76	Dark Colors	100% or greater	
Island Sand	55.6%	0.66	Percentage increased as compa	red to conventional acrylic paints.	
Clay Tone	50.9%	0.60			
Castle Gray	48.6%	0.57	Examples of Reduction	ns in Peak Cooling Loads **	
Lark Green	44.4%	0.51			
Terracotta	41.2%	0.47	Light Colors with TSR 0.60 c	or greater: 29% Savings (KWh)	
Dynamic Blue	35.1%	0.39	Darker Colors with TSR 0.30	0—0.60 18% Savings(KWh)	
Rich Red	33.0%	0.36			
Truffle Brown	31.4%	0.34	This data is generated from the Oak Ridge National Laboratory computer simulation. These numbers are theoretical only and		
* SRI values are calculated us Over 573 cool colors available	sing a theoretical emissivity of (e upon request		one-story residence South Florida.		

ORDER INFORMATION

Packaging:

Available in 1, 5, and 55 gallon containers.

Colors:

Over 570 heat reflective colors. Deep tones colors incur an additional charge. Application Rate:

Coverage rates will be between 175– 225 square feet per gallon (4.9 to 6.0 square meters/liter). Two coats are rec-

SAFETY

Contains hydrocarbon solvents. Use with adequate ventilation. Do not breathe spray mist or dust. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.

Shelf Life:

12 month shelf life, based on the following:

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- Containers stored upright and airtight in a cool, dry place at temperature between 45°F rising to 100°F(7°C—38° C). AVOID FREEZING.
- Skins formed on surface of product shall be removed prior to mixing, moving or using.

First Aid:

If you experience difficulty in breathing, leave area to obtain fresh air. If difficulty continues, seek medical attention. In case of eye contact, flush immediately with large quantities of water for at least 15 minutes. Seek medical attention if blurring or redness continues.

ommended at 350-450 square feet per gallon or one coat at 175-225 square feet

per gallon, depending on surface porosity

and texture. Deep tone colors require

application in two coats at a minimum of

300-350 square feet per gallon each.

Some deep tone colors may require

more product depending on the color. An

actual mock-up should be done prior to

application to determine proper square

footage per gallon for the color chosen.

VOC COMPLIANCE

All TEX•COTE® products comply with federal and state Volatile Organic Compound (VOC) rules and regulations. Please contact your nearest TCA office for assistance on the local VOC compliance in the area of intended use.

WARRANTY

Upon completion of application of coating in accordance with the manufacturer 's recommendations, Textured Coatings of America, Inc. will extend its limited commercial warranty for product replacement as a result of defect in the material. The manufacturer must be notified prior to the application of the coating and the application must be in compliance with the manufacturer 's recommendations for installation. Textured Coatings of America, Inc. shall have no obligation to contribute to or otherwise participate in labor or cost associated with effecting repairs. Specimen copy of material warranty is available upon request.



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TCA shall in no event have any liability for personal injury or damages caused by any person walking on any roof surface coated with TCA products.

**Percentage of peak cooling reductions are based on models generated from the "Roof Savings Calculator" Beta Release V 0.92 Oak Ridge and Lawrence Berkeley National Laboratories. Cooling costs savings, percentage of peak cooling load and surface temperature reductions will vary based on color chosen, geographical location, climate condition and substrate type. In some climates, there may be a heating penalty. For more information, see www.texcote.com.