



# TECHNICAL DATA SHEET

## TEC-TOP™ With Cool Coat Energy Saving Technology

### PRODUCT DESCRIPTION

Rainguard *TEC-TOP* is a premium quality, high build, 100% acrylic water-based elastomeric coating with ceramic spheres that provides water-proof and insulating coating. Over 250% dynamic elongation and recovery strength ensures that the coating will move and flex with the thermal changes of the masonry surface and will not rupture or crack. *TEC-TOP* is vapor permeable yet resists the effects of wind driven rain. Restores and beautifies damaged masonry surfaces and unifies color and texture on new surfaces. Recommended for application to new or existing surfaces such as block, brick, stucco, cement, concrete as well as wood and EFIS surfaces. *TEC-TOP* is quick drying with excellent adhesion and hide.

### PRODUCT FEATURES

1. 250% elongation
2. Full range of colors
3. Low VOC/Low Odor
4. Great for high mold & mildew environments
5. High UV resistance
6. Excellent adhesion when used as a system
7. May be applied at 35°F and rising

### TEST DATA

Dynamic Elongation	ASTM D-2370-82	2000%
Shore Hard A	ASTM D-2240-86	89
Low Temp Flex	ASTM C-734-82	Passed - 180° bend @ 0° F
Tensile Strength	ASTM D-2370-82	260 PSI
Water Vapor Trans	ASTM-E-96	Breath @ 20 mils Dry
Mold Resist Fed Test	141B, 6271	Passed—No Growth
Mildew Resist ASTM	D-3273/3274	Passed—No Growth
Wind Driven Rain		98 mph Wind Driven
Federal Specification	TT-C-555b	Passed—No Water Absorption
Salt Spray	ASTM B117-64	500 Hours -No Change
Scaling Resist 25 Cycles	ASTM C672	Visual Rating—0 Mass - 0
Weatherability	ASTM C28	4500 Hours - Passed
Water Vapor Trans	ASTM D-1653	100% Vapor Perm
Water Repellency	ASTM C67-80A	97% Effective

### OPTICAL PROPERTIES

	Solar Reflectance At Air Mass 1.5	Thermal Emittance at 300K
Tec-Top	.812	.874
Uncoated Sample	.653	.040

### SOLAR REFLECTANCE INDEX (SRI)

Convection Coefficient	Cool Coat	Uncoated Sample
Low, 5 W/m (2) K	101	6
Medium 12W/m (92) K	101	45
High, 30 W/m (2) K	101	63

(Tech-Top meets the requirements that are stated for the Solar Reference Index of a material in the LEED 2009 for Construction and Major Renovation SS Credit 7.1: Heat Island Effect-non Roof pg. 16).

CSI Reference: Division 9

Part Numbers:	<b>USA</b>
1 Gallon	TT-2001
5 Gallons	TT-2005
55 Gallons	TT-2007
250 Gallons	TT-2008

### TECHNICAL DATA

Material Type	Acrylic
Solids by Volume	Approximately 59.0%
Solids by Weight	Approximately 65.0%
Odor	Similar to latex paints
Application Temp Range	40° to 90°F
V.O.C.	2 g/L V.O.C. Compliant
Flash Point	Non-Flammable
Weight	Approximately 12.2 lbs./gal.
Surface Dry (Touch)	Approx 2 hrs. @ 75°F
Surface Dry (Recoat)	Approx 4 hrs. @ 75°F
Full Chemical Cure	3-4 weeks

### COVERAGE RATES (THEORETICAL):

Substrate	Sq. Ft./Gal./per coat
<b>New Surfaces</b>	
Porous (16 mils wet)	100-2 coats
Dense (16 mils wet)	70-2 coats
<b>Repaint</b>	
All Surfaces (16 mils wet)	70-2 coats

### Special Considerations

Use of fluted or scored block or raked joints will increase surface areas by 20%-30% or more and decrease coverage rates. Allow for this increased surface area when determining material requirements.

Manufactured by:  
**Rainguard International**  
1201 Dove Street, Suite 625  
Newport Beach, CA 92660

Office: 866-989-5159  
Fax: 949-675-3450  
info@rainguard.com  
www.rainguard.com

## How To Use

### All Vertical Surfaces

Moisture content of surfaces shall be less than 15% moisture as measured with an electronic moisture meter. New concrete and masonry construction shall be allowed to cure for 10 days to neutralize alkalinity and release residual moisture. All surfaces shall be structurally sound, clean and free of dirt, grime, efflorescence, lime run, construction debris, form oils and release agents, chalked materials, loose and peeling paint, mold and mildew or other surface contaminants, etc.

**Wood** Properly clean and prepare wood surfaces. Pre-treat knots with stain blocking primer material. Prime surfaces.

**Metal** Etch or otherwise clean metal surfaces and prime with appropriate primer.

**Previously Painted Surfaces:** Remove chalk, grime, loose and peeling paint and other contaminants. Repair surface and mortar joint defects. Allow patching materials to cure prior to application of primers. *TEC-TOP* is best applied using airless spray equipment with a minimum 1.0 GPM capacity. Refer to equipment manufacturer for best tip size.

*TEC-TOP* is supplied ready to use. Mix contents thoroughly prior to application. If material becomes too heavy to spray, thin with up to 1 quart of water per 5 gallons of material. To prevent skinning, cover pail with a damp cloth. Apply materials to properly prepared and primed surfaces. Apply *TEC-TOP* to surfaces at the recommended coverage rates depending on surface type and porosity.

**Spray Application:** Spray apply *TEC-TOP* to surfaces using a crosshatch spray pattern. Back-roll materials into surface to create a uniform and pinhole free surface film. Be sure to angle the spray tip from a point higher than the surface to allow coating to build proper mil thickness.

**Roller** Apply 2 coats to surfaces at the recommend coverage rate for each coat to create a uniform and pinhole free surface. Re-coat in approximately 4 hours.

## TEST PANEL:

*Always apply material to a mock wall or test panel, test wall or actual surface area to determine acceptable color, surface porosity, application rates and methods before starting general application.*

## PRECAUTIONS & LIMITATIONS

Do not apply to surfaces if moisture content is greater than 15% as measured with an electronic moisture meter. Do not apply materials in climates where freezing temperatures have existed prior to application, allow adequate time for surfaces to thaw. Establish that air, surface and material temperatures are above 40°F (2°C) and at least 5°F above the dew point prior to painting. Do not apply at temperatures below 40°F or when temperatures are expected to drop below 40°F within 48 hours of application. Do not apply if rain, snow or lower temperatures are expected within 48 hours. Do not apply if relative humidity is greater than 80% or is likely to reach 80% within 24 hours of application..

Use material in a well ventilated area. Protect the work of other trades. Protect shrubbery and other plants with drop cloths. Protect automobiles and all other property from over-spray. Mask and protect all areas not to be coated.

Store materials in a well-protected area between 45° and 90°F. Avoid freezing temperatures, direct sunlight and moisture. Keep away from heat sources.

## LIMITED WARRANTY PROCEDURES/INFORMATION

The information contained herein is offered in good faith and is believed to be accurate. To be eligible for a Rainguard Warranty the following must occur:

1. A site visit must be conducted by an employee or agent of Rainguard and a Field Inspection Report completed.
2. A Warranty Application must be completed fully by the applicator.
3. Field Inspection Report, Warranty Application and a copy of the distributor's invoice must be submitted to and approved by Rainguard.

This material is only warranted when applied in accordance with the manufacturers guidelines and warranty procedures. Without adherence to these specific guidelines, no expressed or implied warranty of this product is given. Please contact Rainguard for additional information.

## Three Year Material and Labor

No primer is needed. Simply apply two coats of Tec-Top at recommended coverage rates depending on surface type. Follow manufacturer's instructions and recommendations for use.

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