

# Cool Coat™ Clear & Tinted

Thermal Enhancement & Waterproofing

## TECHNICAL DATA SHEET



### Cool Coat CSI Reference

05 05 13 Metal
09 96 33 Finishes
09 90 00 Finishes
09 24/25 Finishes

\*standard warranty period is 5 years

### Description

Cool Coat™ is a premium quality, high build, 100% acrylic water-based coating with ceramic spheres for waterproofing and insulation. The insulation effects reduce surface temperature up to 30% depending on the heat level. Cool Coat™ is vapor permeable yet resists the effects of wind-driven rain. It restores and beautifies damaged masonry surfaces as well as unifies new surface colors and textures. It is recommended for new and existing surfaces such as blocks, bricks, stucco, cement, concrete as well as wood and EFIS applications. Cool Coat™ is quick drying with excellent adhesion.

### Features & Benefits

- Low VOC/Low Odor
- High UV resistance
- Low temperature flex, passed 180° bend @ 0° F
- Tensile strength, 260 PSI
- Water absorption, passed
- Water repellent, 97% effective

### Optical Properties

	Solar Reflectance at Air Mass 1.5	Thermal Emittance at 300K
Cool Coat™ Sample	0.812	0.874
Control Sample	0.653	0.040

### Solar Reflectance Index (SRI)

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

\*Cool Coat SRI results meet material requirements in alignment with the LEED 2009 - Construction and Major Renovation SS Credit 7.1: Heat Island Effect-non Roof, P16.

### Finish Type

Clear	High Gloss	Satin	
Color	White Base	Deep Base	Accent Base

### Coverage Rate by Substrate

The coverage depends on the surface. Test the product on a small area of the substrate to estimate coverage.

Substrate (two coatings)	Sq Ft/ Gallon
Smooth surface	150
Rough, porous surface	100

Coating should dry to 6 mils on a smooth surface and 9 mils DFT on a textured surface.

The use of fluted, scored block or raked joints increase surface areas by 20%+ and decrease coverage rates. Allow for this increased surface area when determining material requirements.

### Surface Preparation

Prior to application, 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.

The use of Rainguard's Restore-N-Prep™ Concrete and Masonry Cleaner system is recommended prior to the application of the top finish. This product promotes adhesion and preserves the system's warranty. Follow manufacturer cleaning instructions.

### Restore-N-Prep™ CSI Reference

03 01 40 Concrete Finishes
03 10 30 Concrete Finishes
03 10 50 Concrete Finishes
04 01 20 Unit Masonry
04 01 40 Unit Masonry

### Use on Bare Surfaces

Apply one coat of Micro-Seal® Water Repellent by Rainguard® (required for warranted applications).



## Bare Surfaces CSI Reference

09 24/25 Finishes
04 40 00 Unit Masonry
07 19 00 Damping / Waterproofing

## Slip Resist Option

We HIGHLY recommend the use of Rainguard Slip Resist additive for horizontal concrete and masonry surfaces exposed to moisture, oil or greasy conditions. The additive protects, but does not prevent unexpected slips.

Keep in mind that wet floors are slippery and expose pedestrians to added risk. Floor maintenance procedures and safe footwear are factors when determining the amount of slip-resistance needed. Please call Rainguard at 888-765-8080 for recommendations. Slip Resist can be added in the factory or in the field. Rainguard Sales agents are not responsible for injury incurred in a slip and fall environment. The end user is responsible for safety and identifying suitable coatings for the particular application.

## Application Instructions

### Concrete and Masonry

Allow new concrete and masonry substrates to cure for 10 days. This neutralizes alkalinity and releases residual moisture. After cleaning, we recommend all surfaces shall be less than 15% moisture as measured with an electronic moisture meter. Full chemical cure occurs within 3-4 weeks depending on weather conditions. However pedestrian traffic is acceptable after 24 hours of application. NOT recommended for motorized vehicles.

### Wood

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

### Metal

Etch or otherwise clean metal surfaces. Use an 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. Cool Coat™ is best applied using airless spray equipment with a minimum 1.0 GPM capacity. Refer to equipment manufacturer for best tip size. Cool Coat™ 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 the pail with a damp cloth. Apply the product to the properly prepared and primed surfaces.

Apply Cool Coat™ to surfaces at the recommended coverage rates depending on the surface type and porosity.

### Spray Application

Spray apply Cool Coat™ to surfaces using a crosshatch spray pattern. Back-roll materials into the surface to create a uniform and pinhole-free surface film. Angle the spray tip from a point higher than the surface for the coating to build proper mil thickness.

### Roller

Apply two coats to surfaces at the recommend coverage rate for a uniform, pinhole-free appearance. Re-coat the surface after approximately 4 hours.

## Pre-Application Inspection

Surfaces must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that may prevent proper adhesion. The surface should be at least 2500 psi and feel like 30-grit sandpaper. The surface should be porous and capable of absorbing water. A minimum of 28 days for curing is required on all surfaces. Relative humidity on the surface should be below 80% (per ASTM F-2170). The surface should not be exposed to moisture at least 72 hrs prior to application, and at least 72 hours after installation. Types of moisture includes sprinklers, rain, fog, dew, etc.

Before starting floor work, test the existing surface to ensure no efflorescence or high levels of alkalinity are present. Alkalinity refers to a high pH reading which means the floor is not neutral. A high alkaline environment can cause salts to creep up through the surface called efflorescence. These salts may prevent or destroy the bonding between the coating and the surface. A wide-range pH paper or tape is suitable for the test. The floors pH reading must range between 5-9 for proper adhesion. Surface alkalinity is a representative result at the time the test is ran, and cannot be used to predict long-term conditions.

We recommend Calcium chloride tests to determine if the surface is sufficiently dry for a floor coating installation.

The calcium chloride tests should be conducted in accordance with the latest edition of ASTM F 1869, Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. Remove any grease, oil, curing agents, etc. so accurate readings can be obtained. A rate of 3 lbs/1000 ft<sup>2</sup>/24hr period or less is an acceptable amount of vapor pressure. If the reading is any higher, please consult your Rainguard Salesman for further instructions.



## Technical Data

Material Type	Modified Acrylic
V.O.C.	2 g/L V.O.C. Compliant
Weight	Approximately 12.2 lbs./gal.
Volume Solids	47%
Color of Material	Light Grey (Dries Clear)
Odor	Slight Latex Smell
Application Temperature Range	50°F to 100°F (Please call for assistance)
Surface Dry/Recoat	2-4 Hours @ 75°F
Full Chemical Cure	3-4 Weeks
Flash Point	Non-Flammable
Pedestrian Traffic	24 Hours
Impact Resistance	< 101 lbs.

NOT RECOMMENDED FOR MOTORIZED VEHICLES

## Test Data

Low Temp Flex	ASTM C-734-82	Passed - 180° bend @ 0° F
Tensile Strength	ASTM D-2370-82	260 PSI
Federal Specification	TT-C-555b	Passed—No Water Absorption
Water Repellency	ASTM C67-80A	97% Effective, Rilem Tube

## Pre-Application Inspection (cont.)

Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or all together failure of the coating system. Testing is the responsibility of the applicator. Rainguard bears no responsibility for failures due to any of the above conditions.

## Test Panel

Always apply product onto 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.

## Safe Handling

Use product only with adequate ventilation and/or appropriate cartridge type respirator. Avoid contact with skin and wear protective gloves. Read the Safety Data Sheets before using.

## Precautions

- Do not apply at temperatures below 50°F or above 90°F.
- Do not apply unless temperature is 5° above the dew point or if rain is expected within 24 hours.
- Do not apply on a damp or moist surface as it will whiten and cause delamination.
- Do not allow any Rainguard products to freeze.
- Always sample on a test area prior to starting the actual job.
- Shelf Life of this material is 6 months from the date of manufacture (see batch number for manufactured date).
- Rainguard recommends the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions.
- It is the responsibility of the contractor and end users to provide a flooring system that meets current safety standards.
- OK for use as an Industrial Maintenance Coating, Concrete Masonry Sealer, or Floor Coating, anywhere in the United States, including the South Coast Air Quality Management District (SCAQMD).

## Clean Up

Uncured material can be removed with water. Cured material can only be removed mechanically. All empty containers must be disposed of according to local, state, and federal regulations.



## Warranties

Rainguard Brands, LLC guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. Rainguard Brands, LLC makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact Rainguard Brands, LLC.

Surface conditions and application variables are out of the control of Rainguard Brands, LLC. As such, the applicator agrees to: Follow recommended application instructions, acknowledge limitations outlined in this technical data sheet, contact the manufacturer in the event there any uncertainties, perform a test panel to confirm fit and finish before any general application. The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Rainguard Brands assumes no obligation or liability for use of this information. Contact manufacturer at 888-765-7070 before bidding to confirm warranty provisions and procedures.

**SELLER'S LIABILITY UNDER THE SALE OF THIS PRODUCT IS LIMITED TO REPLACING DEFECTIVE PRODUCT. HOWEVER, IF SELLERS FAILS IN ITS ATTEMPT TO REPLACE THE DEFECTIVE PRODUCT, BUYER WILL BE ENTITLED TO A REFUND OF MONIES PAID TO SELLER UNDER THIS PRODUCT WARRANTY. SELLER IS NOT LIABLE FOR BUYER'S LOSS OF PROFITS, BUSINESS GOODWILL, OR OTHER CONSEQUENTIAL DAMAGES, DESPITE ANY FAILURE TO REPLACE THE PRODUCT. BUYER HAS ACCEPTED THIS RESTRICTION ON ITS RIGHT TO RECOVER CONSEQUENTIAL DAMAGES AS PART OF ITS BARGAIN WITH SELLER. BUYER REALIZES AND ACKNOWLEDGES THAT THE PRICE OF THE PRODUCT WOULD BE HIGHER IF SELLER WERE REQUIRED TO BE RESPONSIBLE FOR BUYER'S CONSEQUENTIAL DAMAGES."**

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