

REFERENCE GUIDE

Coat 'N' Cool HMS[™] is a long lasting, easy to apply architectural coating specially engineered to reflect solar radiation – the visible and near-visible ultraviolet (UV) and infrared (IR) radiation emitted from the sun. Reflecting solar radiation reduces both the exterior and interior temperatures of a structure, which may reduce the cost of energy used for cooling by 10 to 30 percent.

Coat 'N' Cool HMS[™] is a unique, 1-part water-borne epoxy technology using Complex Inorganic Compounded Pigments (CICP's). CICP's are finely crushed and placed in a liquid dispersion in order to easily mix with the 1-part water-borne epoxy. The CICP's give Coat 'N' Cool HMS[™] very high reflectivity and high fade resistance. The 1-part water-borne epoxy technology gives Coat 'N' Cool HMS[™] excellent adhesion and durability, making it one of the most durable and versatile Cool Roof products on the market today. 1-part water-borne epoxies are epoxies that are fused with water and use air as their catalyst. This allows them to be more fluid and applied at thinner spread rates while achieving identical protection to their thicker applied counterparts. Coat 'N' Cool HMS[™] is not just for use on low slope (flat) roofs, but can be successfully applied to steep slope (pitched) roofs and exterior walls because of its superior adhesion to all surface materials such as metal, stucco, clay tile, plastics, wood and siding.

Coat 'N' Cool HMS[™] is one of the few products that can achieve a highly reflective, colored topcoat. Coat 'N' Cool HMS[™] uses Complex Inorganic Compounded Pigments (CICP's) to achieve superior and highly reflective colors. Due to their inorganic nature, the color of these CICP's are fixed and therefore have very high fade resistance. Currently Coat 'N' Cool HMS[™] is available in 30 colors and has the ability to special match any desired color. Please note that reflectivity and emissivity will vary based on color. Coat 'N' Cool HMS[™] has eight colors for low and steep sloped roofs that have been rated by the Cool Roof Rating Council (CRRC). See www.coolroofs.org.

The combination of proven water-borne epoxy technology with highly reflective and fade resistant CICP's make Coat 'N' Cool HMS[™] the best choice to coat and protect the full envelope of all your structures.

Surface Preparations

Structure needs to be in good condition. The surface must be clean, dry and free of dirt, chalk, mildew, wax and oily substances. Remove dirt and grease with a heavy-duty alkaline cleaner. Rinse and let dry. For all chalky areas, power-wash and let dry. Remove efflorescence from the surface with a diluted solution of a phosphoric acid cleaner or similar product. On galvanic metal, use a diluted solution of a phosphoric acid cleaner. Rinse and let dry. Galvanic metals may also be sandblasted. Cracks or breaks must be repaired using a polyester membrane or replaced per manufacturer's specifications. All bubbles must be cut and adhered down using a polyester tape or membrane.

Application

Re-emulsify each container prior to application by using a power mixer. Provided that a clean and sound surface is prepared, two coats should be applied. Coat 'N' Cool HMS[™] can be sprayed with commercial sprayer (0.17 tip) or applied with a ½ inch nap paint roller. It is recommended to cross-hatch the two coats whenever possible. For optimum results, apply Coat 'N' Cool HMS[™] at temperatures between 60° and 90° Fahrenheit. First and second coats do not need to be applied on the same day. When applying white only, use two coats of Coat 'N' Cool HMS[™] Basecoat. When applying any other color, apply one coat of Coat 'N' Cool HMS[™] Basecoat and one coat of the desired color chosen from our standard color pallet.

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Application Surfaces

- Mineral Cap sheet
- Styrene Butadiene Styrene (SBS) Roofs
- Attactic Polypropylene (APP) Roofs
- Metal
- Stucco/Masonry
- Wood
- Plastic

Reflectivity and Emittance:

Solar Reflectivity will vary by color
Basecoat White Solar Reflectivity 0.83 initial
Thermal Emittance 0.87

Coverage

For smooth surfaces

2 gallons per 100 sq. ft. (2 coats required)

For rough surfaces

2.5 to 3 gallons per 100 sq. ft. (2 coats required)

Color Options

Currently eight colors rated with CRRC. 30 standard colors available
Special Matches also available

Handling and Storage

Do not dilute. Do not allow Coat 'N' Cool HMS[™] to freeze in container. Coat 'N' Cool HMS[™] is not recommended for medium to heavy traffic areas.

Clean Up

Clean up with warm water and soap is recommended. No harsh chemicals are needed.