

PLASTIC 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 (CRRCC). 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 Preparation

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 surrounding galvanic metal areas, 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 manufacturers specific guidelines.

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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Coverage

200 square feet per gallon (2 coats required) 3 — 5 mils dry

Reflectivity and Emittance

Solar Reflectivity will vary by color

Basecoat White Solar Reflectivity 0.83 initial

Thermal Emittance 0.87

Color Options

Currently eight colors rated with CRRC

30 standard colors available

Special Matches also available

Clean Up

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

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.

Construction Types

Existing Construction

Coat 'N' Cool HMS[™] is by far the best choice for retrofitting existing roofs. Coat 'N' Cool HMS[™] can be applied to an existing roof much faster than most other coatings – twice as fast in fact. This will allow the applicators to move on to the next project faster, as well as allowing more flexibility in overall project completion. We only require a clean, well conditioned surface free from contaminants for application to begin.

New Construction

Although existing construction is Coat 'N' Cool's forte, there are major benefits to using Coat 'N' Cool HMS[™] on new construction as well. With many options available for constructing a roof, using Coat 'N' Cool HMS[™] as the final step will allow you to use lower cost materials to achieve the same results as high cost counterparts.

Using a high cost, energy efficient built-up roof can cost as much as \$6.00 per sq. ft. With the use of Coat 'N' Cool HMS[™], a standard modified bitumen roof can be constructed for \$2.75 per sq. ft. and then coated with Coat 'N' Cool HMS[™] for an additional \$2.00 per sq. ft., while still providing the same level of protection.

Warranty

CCJJ LLC, Makers of Coat 'N' Cool HMS[™], grants a limited warranty to the owner ("Owner") of a building containing a Coat 'N' Cool Heat Management System ("CNC System") installed by an Authorized Dealer/Installer ("Contractor"), subject to the conditions and limitations contained herein. CCJJ LLC shall be obligated to repair any defect in the CNC System caused by any component of the CNC System or by the workmanship of the Contractor within the first 10 years. This said workmanship only pertains to the installation of the CNC System itself and not as it pertains to other work performed, if any. CCJJ LLC shall have the option to either repair or replace part or all of the CNC System, and also includes the furnishing of/or cost of labor to repair the CNC System at the Contractor list price in effect at the time of the repair.

This Limited Warranty is in lieu of any other warranties, express or implied, including those of merchantability or fitness for particular purpose, which extend beyond the description on the label and printed recommendations. CCJJ LLC is not responsible for incidental or consequential damages, however occasioned. Please see full Coat 'N' Cool HMS[™] warranty for additional information.