



TECHNICAL DATA SHEET

GENERAL DESCRIPTION
– SUBJECT TO CHANGES OR DEVIATIONS

GulfCoat[®] DIY TransBlue, TransClear, & GulfCoat Gold Spray-Applied, Corrosion Resistant Coatings

PRODUCT DESCRIPTION

GulfCoat[®] Contractor Series Coil Coating is new from Modine CIS. GulfCoat[®] TransBlue, TransClear, and GulfCoat[®] Gold are water based corrosion resistant coatings that are environmentally friendly and will provide the ultimate in corrosion protection. GulfCoat[®] coatings provide a HVAC coil coating system for added corrosion protection on aluminum and copper finned RTPF and MCHX coils. GulfCoat[®] coatings help to reduce the accelerated corrosion of HVAC coils. By following the coating and maintenance instructions, end users should expect extended life cycles while avoiding energy loss due to corrosion.

SPECIFICATIONS

Heat exchanger (HX) coils shall have a water-based synthetic polymer coating spray-applied with no material bridging between fins. The spray coating process will ensure a uniform dry film thickness of 15-30 μm (0.6- 1.2 mils) and meet 5B rating crosshatch adhesion per ASTM D3359. Corrosion durability will be confirmed through testing to no less than 5,000 hours salt spray resistance per DIN 53167 (ASTM B117) using aluminum and /or copper test coupons.

APPLICATIONS IDEALLY SUITED FOR GULFCOAT[®]

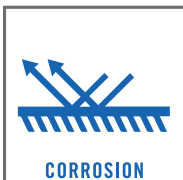
- Heat exchanger coils (water, condenser, evaporator, DX)
- Mini-splits
- Packaged Rooftops
- Condensing Units
- Modular Air-handlers
- Air-cooled Chillers
- Interior & exterior HVAC cabinetry and copper piping

APPLICATION METHOD

Spray using compressed air and conventional HVLP spray gun. Mix well before and during application. Brush and roll applications are not recommended.

STORAGE

If stored in the original closed container in a cool dry place, the shelf life is 12 months.



CORROSION RESISTANCE

GulfCoat is suitable for most environments and will maintain its appearance after many years exposure to the elements.



UV DEGRADATION

Built in enhanced UV inhibitors form a protective barrier throughout the paint film, reflecting sunlight and preventing ultraviolet rays from penetrating.



GLOSS RETENTION

A high gloss finish is applied that is smooth, limits dirt and debris buildup and allows for easy equipment cleaning.



POT LIFE

This single component coating does not have a pot life as it can be re-used. If you have unused coating left that has not been sprayed, it can be returned to the original container and sealed.

DRYING TIME

- 80°F & Relative Humidity 70%
- Touch 10 minutes
- Handle 20 minutes
- Re-coat 30 minutes
- Full Cure 48 hours

CLEANING PROCESS

The coil to be coated shall have all areas accessible in an effort to properly clean, dry and coat the coil. Wet the coil with water first then apply a diluted neutral degreaser/coil cleaner. If possible, complete a thorough pressurized hot water wash and rinse until the coil rinse water is clear of bubbles and/or foam. If only cold water is available through a garden hose, then complete this wash/rinse cycle twice.

DRYING PROCESS

After the cleaning process, the coil should be blown out and dried to reduce contamination from minerals in the water and to facilitate a quicker turnaround time. Using a powered blower or clean, dry compressed air, blow out all excess water from the coil until dry. A heat gun or hair dryer may accelerate the drying process if required.

SPRAY APPLICATION

Prior to the coating application the coil must be clean and completely dry. GulfCoat[®] coatings must be applied at a minimum wet layer thickness of approximately 3 mils resulting in a dry layer thickness of 1 mil, (thickness of a human hair). Air atomization pressure should be 80-100 psi using a tight spray pattern at 4 inches of distance away from the coil. All areas of the coil should be sprayed in both horizontal and vertical directions. Special attention using extra layers and spray angles will need to be required when coating headers, u-bends and hairpins to ensure proper coverage. After both vertical and horizontal spray patterns have been completed, a final overall wide angle spray shall be completed to ensure uniform coverage and fin edge buildup.

EQUIPMENT CLEAN-UP

After the spray coating has been completed, the spray equipment will need to be disassembled and cleaned. Water will be used for the spray equipment clean-up. Disassemble the paint equipment in an effort to allow for the rinsing and cleaning of paint wetted parts. Small bottle brushes may be required to scrub and clean the affected parts. Please refer to the equipment manufactures instructions for proper disassembly and cleaning.

TECHNICAL PROPERTIES

PROPERTY	TEST METHOD	PERFORMANCE
Salt Spray	DIN 53167/ASTM B117	Exceeds 10,000 hours
Water Immersion	ASTM D870	1000 hours minimum
Pencil Hardness	ASTM D3363	HB-F
Cross Hatch Adhesion	ASTM D3359	5B
Humidity	ASTM D2247	1000 hours minimum
UV Resistance	ASTM D4587	1000 hours minimum
Mandrel Bend (Flexibility)	ASTM D522M	Pass
Mold Resistance	ASTM G21	Pass
C5-I Continuous Condensation	ISO 6270	Pass
C5-I Salt Spray	ISO 7523	Pass
C5-I Chemical Resistance	ISO 2812-1	Pass

PRODUCT NUMBER:

WRA-LC-020, WRA-OC-030/GL, WRA-YC-031

PRODUCT NAME:

TransBlue, TransClear, GulfCoat Gold

PHYSICAL PROPERTIES

PROPERTY	RESULT
Viscosity	30 + -5 seconds #3 Zahn Signature @ 78F 60+ -10 seconds Ford #4 @ 76F (CA Technologies P#97-9101)
Weight	8.56 +/- .15%
Gloss	60: 85+ Minimum
Solids	Weight: 32.12 +/- -2% Volume: 30.14 +/- -2%
Grind	N/A
Flash Point	201°F
Coverage (Sq. Ft./Gal Flat Work)	250 @ 1 Dry Mil. (Assuming no loss)
Coverage (Sq. Ft./Gal Coil Face)	50 @ 1 Dry Mil. (Assuming no loss)
V.O.C. Lb/Gal	0.34 Including water, 1.00 Excluding water
pH	8.0-8.50
Application Temp*	Minimum 55°F – Maximum 100°F
Cure Temp	Minimum 55°F – Maximum 120°F
Cure Method	Air Dry
Reductions	None
Clean-up	Water when wet, actone when dry

*Temperature must be 5 Degrees above dew point prior to spraying

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