Enercoat® Thermally Conductive Moisture Curing Polyurethane

Product Data Sheet

Section 1: Product Name and Manufacturer

Product Name: Enercoat® Thermally Conductive Moisture Curing Polyurethane

Supplier/Manufacturer:

Ener.co, LLC
845 Third Avenue, 6th Floor
New York, NY 10022
USA
(212) 572-0784

Section 2: Description

Enercoat® is a performance coating designed to prevent corrosion and bolster thermal conductivity, resulting in the most energy efficient and resilient condenser coils on the market.

OSHA/HAZCOM/HCS Status: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazard Pictograms:

Section 3: Uses

Enercoat® Thermally Conductive Moisture Curing Polyurethane is designed for use on the aluminum coils in industrial air condition units. Incorporating graphene in the proprietary formula, this polyurethane maintains optimal thermal conductiy and heat dispersion once applied. Its anti-corrosion properties ensure that the a/c unit, once treated, will maintain its efficeincy and not be affected by the oxidation of the aluminum fins.

Precautionary Statements: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. Do not breathe dust, fume, gas, mist, vapors or spray. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep container tightly closed. Keep cool. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. If exposed or concerned: Get medical advice. Get medical advice if you feel unwell. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and containers in accordance with local, regional, national and international regulations.

Section 4: Product Application

There are different steps to follow in order for Enercoat to achieve its maximum protective and thermally conductive performance. If you do not follow these steps, the application of the anti-corrosion coating will not be as effective as it could be.

TREATMENT:	The Enercoat® Treatment restores air-cooled condensers to their optimal performance. The graphene powered polymer is applied to the coils to uphold their thermal performance and prevent future corrosion, leading to greater and lasting energy efficiency.
SURFACE PREPARATION:	The preparation incorporates the entire surface of the aluminum fins in the a/c unit for the coating. This involves removing existing corrosion, straightening the fins that require it and a thorough cleaning.
APPLICATION:	Coils are sprayed with a 1-2 mil layer of Enercoat, preventing corrosion and enhancing heat transfer.

Section 5: Temperature and Equipment

Temperature
Minimum: 42˚F/5.5˚C
Maximum: 97˚F/36˚C
Relative Humidity: Max 90%

Airless Spray N/A
Pressure: N/A
Hose: N/A
Tip: N/A
Filter: N/A

Conventional Spray
Gun: Siphon
Fluid Nozzle: .046
Air Nozzle: 5-7 (cfm); pattern max (9”-11”)
Atomization Pressure: 50-120 psi
Fluid Pressure: 15-35 psi

Section 5: Technology Benefits

Enercoat® Thermally Conductive Moisture Curing Polyurethane leads to the following benefits:

- Elimination of corrosion as an impediment to efficiency
- Increased life of the a/c unit
- Decreased strain on a/c unit components (fans, belts, etc.)
- Decrease of greenhouse gas emissions
- Reduction of carbon footprint
- Improvement of indoor air quality with an increase in moisture removal

Section 6: Features

Enercoat® Thermally Conductive Moisture Curing Polyurethane leads to the following results:

- Reduction of energy cost
- Increased energy efficiency
- Reduction of peak kW
- Increased cooling capacity
- Improvement of indoor air quality with an increase in moisture removal