

Product Data Sheet

Section 1: Product Name and Manufacturer

Product Name: Enercoat® Thermally Conductive Water-Based Epoxy

Supplier/Manufacturer: Ener.co, LLC
854 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 not considered hazardous by the OSHA Hazard Communication Standard.

Hazard Pictograms:



Section 3: Uses

Enercoat® Thermally Conductive Water-Based Epoxy is designed for use on the aluminum coils in industrial air condition units. A water-based proprietary formula, this coating maintains optimal thermal conductivity and heat dispersion once applied. Its anti-corrosion properties ensure that the a/c unit, once treated, will maintain its efficiency.

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 follow these steps, the anti-corrosion coating will reach its maximum potential.

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. Please refer to the Ener.co operating manual for any additional information.

Section 5: Temperature and Equipment

Temperature

Minimum: 40°F/5°C

Maximum: 90°F/32°C

Relative Humidity: Max 85%

Airless Spray Direct Siphon

Pressure: 3000 max psi

Hose: 1/4

Tip: .019

Filter: Metal Filter Installed N/A

Conventional Spray

Gun: Siphon

Fluid Nozzle: .035

Air Nozzle: 5 (cfm); pattern max (7")

Atomization Pressure: 200 to max psi

Fluid Pressure: 10-15 psi

Section 5: Technology Benefits

Enercoat® Thermally Conductive Water-Based Epoxy leads to the following benefits:	<ul style="list-style-type: none">• 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
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Section 6: Features

Enercoat® Thermally Conductive Water-Based Epoxy leads to the following results:	<ul style="list-style-type: none">• 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
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