

ECOAT SOLUTIONS

PRODUCT INFORMATION

ECS 1200

ANTI-CORROSION ULTRAHYDROPHOBIC HEAT INSULATING COATING

ECS 1200 Thermal Barrier Coating is a high performance protective coating formulated to reduce radiated heat. Extremely durable and provides best in class thermal protection at temperatures of up to 1600°F (871°C). Applied to almost any metal, composite, or semi-rigid plastic substrate. It is an easy to apply one-component formulation. ECS 1200 is solvent based, VOC exempt and environmentally friendly. It provides excellent corrosion resistance. ECS 1200 is designed for use on automotive components such as engine headers, engine manifolds, exhaust pipes, heat shields, exhaust mufflers and catalytic converters. Effective on aircraft engine components

Key Performance Properties

- Excellent thermal barrier protection.
- Extreme adhesion.
- Forms covalent bond to the substrate giving it an intrinsic bond to surfaces for long term durability.
- Bonds to all metals, composites, semi-rigid plastics, and many other substrate types.
- Unparalleled durability.
- Excellent chemical and abrasion resistance.
- Excellent anti-corrosion performance.
- Extremely high operating temperature.
- Thin application (0.4 to 1.0 mil / 10–25 micron dry film thickness) will not alter component tolerances.
- Easy to apply single component coating.
- Curable by ambient air (accelerated by oven curing).
- RoHS compliant.
- REACH compliant.

Common Applications

- Aircraft engine mounts
- Catalytic converters
- Combustion chambers
- Engine headers
- Engine manifolds
- Exhaust ports
- Exhaust system & components
- External turbo housings
- Heat shields
- Piston domes
- Valve tops



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