

ECOAT SOLUTIONS

PRODUCT DATA SHEET

ECoAT eCo-Slick (ECS 5003)

GREENHOUSE & SOLAR PANEL ULTRAHYDROPHOBIC NANO-CERAMIC COATING

ECS 5003 eCo-Slick is a VOC exempt, environmentally friendly, solvent based hydrophobic coating specifically formulated for maximum performance on greenhouses and solar panels. ECS 5003 has excellent adhesion, UV resistance, and durability. It creates a micro-thin, super-slick hydrophobic surface that prevents the adhesion of ice, dirt, debris, mold, snow, etc. from treated surfaces. This creates a self-cleaning surface that increases performance while minimizing ongoing maintenance. ECS 5003 has been specifically formulated for use on greenhouses and solar panels. In addition to its self-cleaning properties, ECS-5003 increases the amount of solar energy that passes through glass and clear surfaces, increasing the potential energy yield in solar panels.

Proudly manufactured in the USA.

Technical Data

Color	Clear
Viscosity	16-18 sec. #2 Zahn
Percent of Solids (%)	16
V.O.C	Exempt per CFR 51.1 / Regulation 8
RoHS	Compliant
REACH	Compliant
Halogens	None
Thermal Stability (cured)	1200°F / 648.8°C
Conical Bond (1/8" Mandrel) (ASTM D522-93a)	Passed
Cross Cut Adhesion (ASTM D3359)	5B
Coefficient of Friction (ASTM D2047)	0.03μ
Specific Gravity (ASTM D891-09)	0.889
Pencil Hardness (ASTM D3363)	8h
Odor (liquid)	Slight Solvent
Odor (cured)	None

Drying and Coverage Rate

Average Applied Dry Film Thickness	2 to 5 microns
Estimated Coverage Rate (@ 3 microns)	2,170 ft ² (200 m ²) per gallon
Dry to Touch Time (@ 77°F / 25°C) *Warm airflow and/or exposure to sunlight will reduce drying time	15 – 25 minutes (average)
Ambient Cure (Full Properties) *Exposure to warmer sunny days will help speed the cure process	5 days

Key Performance Properties

- Hydrophobic, water repellent surface.
- Self cleaning.
- Increases solar efficiency.
- Anti-icing.
- UV resistance.
- Excellent adhesion. Creates intrinsic bond with the substrate.
- Non-flammable.
- Clear.
- Smooth.
- Excellent coverage rate.
- Ambient cure, short dry time.
- Environmentally friendly. VOC exempt. Will not harm marine life.
- RoHS and REACH compliant.

Common Applications

- Greenhouses
- Solar panels

Supplemental Information

The ECS 5000 Series includes multiple high performance hydrophobic protective coatings designed for different end uses and a variety of slick, wet grip, and textured finishes. Contact your eCoat representative to find the best coating for your requirements.

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