

ECOAT SOLUTIONS

PRODUCT DATA SHEET

ECS 2600

NANO-CERAMIC INDUSTRIAL MOLD RELEASE COATING

ECS 2600 - eCoat Mold Release coating revolutionizes composites manufacturing. It maximize ROI via a simple to apply coating that improves both the efficiency and longevity of molds. It results in faster cycle times due to easier release. ECS 2600 drives more cycles without cleaning or re-coating. No free silicones means no contamination of molded components. ECS 2600 works with all common high temperature resin systems and all common industrial-molding technologies. Proudly manufactured in the USA.

Technical Data

Color	Clear
Viscosity	12 sec. #2 Zahn
Percent of Solids (%)	12
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)	0.88g
Pencil Hardness (ASTM D3363)	8h
Odor (liquid)	Slight Solvent
Odor (cured)	None

Drying and Coverage Rate

Average Applied Dry Film Thickness	2 to 3 microns
Estimated Coverage Rate (@ 3 microns)	1,630 ft ² (150 m ²) per gallon
Dry to Touch Time (@ 77°F / 25°C) *Exposure to a warmer air flow (not exceeding 110°F) will accelerate drying and curing	15 – 25 minutes (average)

Key Performance Properties

- High performance single component mold release film.
- Easy application. May be wiped on and ambient air cured.
- Creates a covalent bond to the substrate giving it an intrinsic bond to the mold.
- Inert (benign) material.
- Excellent release properties with all common high temperature cured resin systems (e.g. epoxy, BMI, polyurethane, and polyimide).
- Very low transfer (contamination) to the molded part. No free silicones.
- Excels at releasing difficult substrates from complex mold geometries.
- High suitability for no rubber-to-metal bonding.
- Low levels of in-mold build-up/fouling.
- Many releases (high durability) between applications.
- Applicable to all common molding processes.
- High temperature resistance.
- Available with black light tracer to ensure 100% coverage.
- RoHS and REACH compliant.

Common Applications

All common molding and composite manufacturing processes

Supplemental Information

ECS 2600(BL) is available with black light tracer for easily inspecting coating coverage once applied.

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