

ECOAT SOLUTIONS

PRODUCT DATA SHEET

ECS 1670 - Industrial Blade - Base Coat

NANO-CERAMIC NON-STICK DURABLE EDGE COATING

ECS 1670 is a high performance, single component coating specifically designed to protect and revitalize industrial blades. It creates a thin, highly durable ceramic protective layer on cutting surfaces. It revitalizes cutting surfaces by smoothing out imperfections caused by past corrosion pitting, uneven abrasion wear, and general wear & tear. This creates a sharper, more efficient cutting surface. Secondly, the ceramic surface coating will protect the blade from future damage. The overall result is a sharper, more efficient cutting tool that performs better, lasts longer, and requires less maintenance. ECS 1670 is easily applied by wipe in ambient conditions and should be top coated with ECS 1671. Proudly manufactured in the USA.

Technical Data

Color	Clear
Viscosity	16-18 sec. #2 Zahn
Percent of Solids (%)	18
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)	8-9h
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)	2,450 ft ² (60 m ² /Liter) per gallon
Dry to Touch Time (@ 77°F / 25°C) *Exposure to a warmer air flow (not exceeding 110°F) will accelerate drying times.	15 – 25 minutes (average)

Key Performance Properties

- Smoothens rough blade surfaces & reduces friction for maximum cutting performance
- Protects cutting edges from erosion and corrosion, thereby reducing maintenance and downtime
- Increase usable life of cutting equipment
- Creates a covalent bond to the substrate giving it an intrinsic bond to the cutting blade for maximum long term durability
- Contains no "free silicones" to contaminate finished products
- Clear finish
- Thin application
- Excellent coverage rate
- Easily applied by wiping
- Ambient cure, short dry time
- Environmentally friendly. VOC exempt.
- RoHS and REACH compliant

Common Applications

- Any type of industrial cutting blade, slitter, knife, razor, shear, etc.

Supplemental Information

ECS 1670 is an excellent base sealer for used blades with rougher surfaces, as well as protecting new blades from corrosion and damage. ECS 1670 will smooth out the cutting surfaces prior to the application of ECS 1671. ECS 1671 may be used with or without the base sealer, but its overall longevity will be diminished.

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