

ECOAT SOLUTIONS

PRODUCT DATA SHEET

ECS 1671 - Industrial Blade - Top Coat

NANO-CERAMIC NON-STICK DURABLE EDGE COATING

ECS 1671 is a high performance, single component coating specifically designed to maximize the performance of cutting surfaces and blades when applied over ECS 1670 base coat. ECS 1671 creates a thin non-stick ceramic barrier wear surface that reduces friction and improves cutting efficiency. Coated blades will resist the buildup of glues and other adhesives keeping the cutting surface clean and effective. ECS 1671 is easily applied by wipe in ambient conditions. Service curing occurs after 30 minutes in ambient room temperature, reducing the downtime of the coated equipment.

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)	0.889
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 (40 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

- Protects cutting edges from erosion and corrosion, thereby reducing maintenance and downtime
- Resists build-up of glues and other adhesive type materials
- Reduces friction resulting in more efficient cutting performance
- 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
- Works equally well on straight cutters or slitter wheel knives
- 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.

ECOAT LLC – 12055 41ST AVENUE NORTH # 218, PLYMOUTH, MINNESOTA 55441
 INFO@ECO-COATSOLUTIONS.COM – 612.314.3999 – WWW.ECO-COATSOLUTIONS.COM

THE INFORMATION CONTAINED HEREIN IS BELIEVED BY ECOAT LLC TO BE ACCURATE AND IS OFFERED SOLELY FOR THE CUSTOMER'S CONSIDERATION, INVESTIGATION, AND VERIFICATION. DETERMINATION OF SUITABILITY FOR USE IS THE RESPONSIBILITY OF THE USER. ECOAT LLC'S LIMITATIONS, LIMITED WARRANTY, & DISCLAIMER ALONG WITH STANDARD TERMS & CONDITIONS APPLY. SEE WWW.ECO-COATSOLUTIONS.COM FOR MORE INFO. LIMITATIONS: STANDARD VARIATIONS OF MECHANICAL PROPERTIES AND HYDRAULIC PROPERTIES ARE NORMAL. ECOAT PRODUCTS ARE RESISTANT TO CHEMICALS IN NORMAL ENVIRONMENTS, HOWEVER SOME REAGENTS MAY AFFECT THE PERFORMANCE OF THESE PRODUCTS. AN ECOAT REPRESENTATIVE SHOULD BE CONTACTED FOR FURTHER INFORMATION TO DETERMINE THE SUITABILITY OF USE OF THESE PRODUCTS IN UNUSUAL ENVIRONMENTS, UNLESS OTHERWISE STATED. ECOAT PRODUCTS SHOULD HAVE LIMITED EXPOSURE TO ARTIFICIAL UV AND SUNLIGHT. ECOAT'S PRODUCTS SHOULD BE PROTECTED IMMEDIATELY, AND IF APPLICABLE, COVERED FOR 48 HOURS AFTER INSTALLATION TO PROTECT FROM MOISTURE. DISCLAIMER: ALL INFORMATION, DRAWINGS AND SPECIFICATIONS ARE BASED ON THE LATEST PUBLISHED INFORMATION AT THE TIME OF PRINTING. ECOAT LLC RESERVES THE RIGHT TO MAKE CHANGES DUE TO MANUFACTURING IMPROVEMENTS AND ENGINEERING AT ANY TIME. ALL PHYSICAL PROPERTIES ARE MINIMUM AVERAGE VALUES (MAV).