Technical Data

Ever-Slik® 1221

Protective Coatings

Everlube® Products
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Product Description

Ever-Slik 1221 is a thermally cured, specially blended high molecular weight phenolic based coating which provides outstanding corrosion resistance in almost any environment. This coating provides excellent chemical and corrosion resistance, and is ideal for applications where abrasion resistance is needed. Ever-Slik 1221 was primary developed for barrier and protective coating related applications.

Features / Benefits

- Excellent corrosion resistance
- Excellent chemical resistance
- Good abrasion resistance
- No lubricating properties

Markets

- Chemical Processing
- Automotive
- Aerospace/Defense
- Fabricated Metal Parts

Typical Applications

- Rare earth magnets
- Pump and valve components
- Actuator stems and shafts
- Fittings and impellers

Physical Properties

Lubricating Solids	N/A
Binder	High molecular weight phenolic
Color and Appearance*	Matte black finish
Carrier	Solvent borne
Solids (by weight)*	27% to 31%
Density*	8 ± 0.5 lb/gal (959 ± 60 grams/liter)
Flash Point	16°F (-8.9°C)
Volatile Organic Compound	670 grams/liter (5.6 lb/gal)
Theoretical Coverage[1]	642 ft^2/gal @ 0.5 mils (15.7 m^2/liter @ 12.7 microns)

Processing Information

Dry Film Thickness	0.3 to 0.8mil (8 to 20 microns)
Dilution / Cleanup Solvent	642 solvent or MEK or 50% ethyl alcohol/50% toluene (preblended)
Dilution Ratio (for spray)	1:2 (product to solvent by volume) adjust as needed
Cure Cycle	1 hr @ 300°F ± 25°F
Suggested Pretreatment	Grit blast and/or phosphate
Suggested Application Method	Dip Spin, Spray

For additional information, please see Processing Bulleting #3000-A

(Continued)

Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTM B117	>400 hrs. @ 5% neutral salt spray
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	
Coefficient of Frication	ASTM D2714	N/A
Operating Temperature Range		-100°F to 300°F (-73 to 149°C)
Load Carrying Capacity		N/A
Wear Life		N/A

Chemical Resistance (ASTM D-2510, Method C)

Isopropyl Alcohol or Ethyl Alcohol	Pass	Diethanolamine	Pass
Mineral Spirits or Paint Thinner	Pass	Hydrochloric Acid (10%)	Pass
Toluene	Pass	Sodium Hydroxide (10%)	Pass
Acetone	Pass	Distilled Water	Pass
Skydrol 500	N/R	Jet Fuels (JP-4)	Pass
Hydraulic Fluids	Pass	Trichloroethylene	Pass
Anti-Icing Fluids	Pass	Std. Test Fluid (TT-S-735, Type II)	Pass
Aviation Gas, grade 115/45 (Mil-G-5572)	Pass	Hydraulic Fluid (Mil-H-5606)	Pass
Methyl Ethyl Ketone	Pass	Aircraft Turbine Oil Grade 1100	Pass
Aircraft Turbine Oil (Mil-L-2104)	Pass	H-D Lube Oil (Mil-L-2104)	Pass
Non-petroleum hydraulic fluid (Mil-L-8446)	Pass	DC-550 Fluid	Pass
1,1,1 Trichloroethane			

Note: Chemical resistance may vary depending on the cure cycle. N/R = Not recommended

Additional Information

Shelf Life and Storage:

One year from date of shipment, stored in a factory sealed container between the temperatures, 40°F to 100°F. Coatings are thermally stable, but we do not recommend prolonged exposure outside of the specified temperature range listed above.

Packaging:

Ever-Slik 1221 is available in gallon, quart, and 5-gallon pail

Warranty:

No representation of warranty is expressed or implied and all warranties including warranties of marketability and fitness for use are expressly disclaimed. Nothing herein shall be construed as permission or recommendation to practice a patented invention without a license.

* These tests are performed on each production lot

[1] Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.5 microns).

Issue Date: 12/10/02, Latest Revision Date: 6/6/19