Technical Data

Lubri-Bond® K

Air Dry, MoS_2 Solid Film Lubricant

Everlube® Products
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Product Description

Lubri-Bond K is an air drying, MoS2 based solid film lubricant with an epoxy binder system. This coating provides a low coefficient of friction, and performs best in higher load carrying applications. It is ideal for applications that do not require a thermally cured coating. Lubri-Bond K is also an excellent touch-up lubricant for many of our thermally cured products. Specifications for this product can be found at: http://www.everlubeproducts.com/products.

Features / Benefits

- Good coefficient of friction
- Lead Free
- Suitable for field applications
- Ideal for higher load carrying applications

Markets

- Industrial Machinery & Equipment
- Mechanical Components
- Fabricated Metal Parts
- Chemical Processing

Typical Applications

- Hydraulic fittings
- Guide and sliding rails
- Bearing and cams
- Control valve bushings

Physical Properties

Lubricating Solid	MoS_2
Binder	Epoxy
Color and Appearance*	Gray/Black Matte Finish
Carrier	Solvent Based
Solids (by weight)*	24 to 26%
Density*	8.5 ± 0.5 lb/gal (1018 ± 60 grams/liter)
Flash Point	25°F (-3°C)
Volatile Organic Compound	768 grams/liter (6.4 lb/gal)
Theoretical Coverage[1]	138 ft²/gal @ 0.5 mils (3.3 m²/liter @ 12.7 microns)
Alternative or Repair Coatings	Lubri-Bond K is suitable for touch-up on Everlube 626 applications

Processing Information

Dry Film Thickness	0.3 to 0.6 mils (8 to 15 microns)
Dilution/Cleanup Solvent	MEK
Dilution Ratio	1:1 to 1:2 (Product to Solvent)
Cure Cycle	24 hr. @ 77°F +/- 10°F
Suggested Pretreatment	Grit Blast and/or Phosphate
Suggested Application Methods	Dip Spin/Spray

For additional information, please see Processing Bulletin #3002

Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTMB117	<100 hrs. @ 5% Neutral Salt Spray
Test Panel Coating Method		0.8 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	fAIR
Coefficient of Friction	ASTM D2714	0.04 to 0.06
Operating Temperature Range		> 150,000 psi
Load Carrying Capacity*	ASTM 2625, Method B	> 40 minutes
Wear Life*	ASTM 2625, Method 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 (room temperature)	Pass	Jet Fuels (JP-4)	Pass
Hydraulic Fluids	Pass	Trichloroethylene	Pass
Anti-Icing Fluids	Pass		

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:

Lubri-Bond K is available in Gallons, 5-gallon pails, Quarts

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).

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