Technical Data

Perma-Slik® C

Air Dry, MoS_2 Solid Film Lubricant

Everlube® Products
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Product Description

Perma-Slik C is an air drying; MoS_2 based solid film lubricant with a modified organic binder system. This coating offers fast drying capabilities and is ideal for use as a maintenance, or break-in lubricant applications. It is ideal for applications that do not require a thermally cured coating. Perma-Slik C is also an excellent touch-up lubricant for many of our thermally cured products.

Features / Benefits

- Good corrosion resistance
- Good break in lubrication
- Suitable for field applications
- Good corrosion resistance

Markets	Typical Applications
• Mechanical Components	• Hydraulic fittings
• Industrial Machinery & Equipment	• Guide and sliding rails
• Fabricated Metal Parts	• Bearing and cams
• Chemical Processing	• Rings and seals

Physical Properties

Lubricating Solids	MoS_2, Graphite
Binder	Organic
Color and Appearance*	Matte gray finish
Carrier	Solvent borne
Solids (by weight)*	8.5% to 10.5%
Density*	7.1 ± 0.5 lb/gal (851 ± 60 grams/liter)
Flash Point	10°F (-12°C)
Volatile Organic Compound	721 grams/liter (6.01 lb/gal)
Theoretical Coverage[1]	122 ft²/gal @ 0.5 mils (2.9 m²/liter @ 12.7 microns)
Alternative or Repair Coatings	Thermally cured or water-based alternatives for Perma-Slik C are Everlube 620 and Everlube 9001, respectively.

Processing Information

Dry Film Thickness	0.3 to 0.6 mil (8 to 20 microns)
Dilution / Cleanup Solvent	Ready to Apply, Clean-up with MEK or Acetone
Dilution Ration	N/A
Cure Cycle	24 hr @ 77°F +/- 10°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		<100 hrs. @ 5% neutral salt spray
Test Panel Coating Method		0.5 mil on grit blasted steel panel
Abrasion Resistance	ASTM D4060	Fair
Coefficient of Friction	ASTM D2714	.02 to .04
Operating Temperature Range		-365° to 300°F (-221° to 149°C)
Load Carrying Capacity*	ASTM 2625 Method B	< 100,000 psi
Wear Life*	ASTM 2625 Method A	< 45 minutes

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: Perma-Slik C is available in Gallon, 5-Gallon Pail, Quart, Aerosol Case

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: 10/30/02, Latest Revision Date: 10/16/03