Technical Data

Perma-Slik® RAC

Fast Dry, MoS2/Graphite Solid Film Lubricant

CURTISS-WRIGHT
Everlube® Products
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Product Description

Perma-Slik RAC is an air drying, MoS2/Graphite based solid film lubricant with an organo-metallic binder system. This coating provides excellent thermal stability, low coefficient of friction, very good wear life and performs well in higher load carrying applications. Generally, this coating will dry to the touch in less than 5 minutes. Specifications for this product can be found at: http://www.everlubeproducts.com/products.

Features / Benefits

- Excellent thermal stability
- Excellent coefficient of friction
- Very good wear life
- Ideal for field applications which don't require a pretreatment

Markets	Typical Applications
• Aerospace/Defense	• Threaded connectors and disconnects
• Industrial Machinery & Equipment	• Rollers, guides and sliding rails
• Elastomeric Parts	• Pumping systems
• Automotive	• Elastomeric components

Physical Properties

Lubricating Solid:	MoS_2, Graphite
Binder	Organo-Metallic
Color and Appearance*	Gray/Black Matte Finish
Carrier	Solvent Based
Solids (by weight)*	32 to 36%
Density*	7.7 ± 0.5 lb/gal (923 ± 60 grams/liter)
Flash Point	15°F (-9°C)
Volatile Organic Compound	605 grams/liter (5 lb/gal)
Theoretical Coverage[1]	465 ft²/gal @ 0.5 mils (11.3 m²/liter @ 12.7 microns)
Alternative or repair coatings	N/A

Processing Information

Dry Film Thickness	0.2 to 0.8 mils (5 to 20 microns)
Dilution/Cleanup Solvent	Heptane or Toluene. Xylene or VM&P Mineral Spirits may be used as a retarder solvent.
Dilution Ratio	1:1 to 2:1 (Product to Solvent) Adjust as needed
Cure cycle	1 to 4 hr. @ 65°F to 85°F at greater than 50% relative humidity
Suggested Pretreatment	No cleaning required or grit blast or phosphate
Suggested Application Methods:	Dip Spin / Spray

For additional information, please see Processing Bulletin # 3017

Typical Functional Properties

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTM B117	< 24 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	.03 to .07
Operating Temperature Range		-325° to 750°F (-198° to 399°C)
Load Carrying Capacity	ASTM D2714	<100,000 psi
Wear Life	ASTM 2625. Method A	83 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%)	N/R
Toluene	Pass	Sodium Hydroxide (10%)	N/R
Acetone	Pass	Distilled Water	Pass
Skydrol 500	Pass	Jet Fuels (JP-4)	Pass
Hydraulic Fluids	Pass	Trichloroethylene	Pass
Anti-Icing Fluids	Pass	Reagent Water	Pass
DC-550	Pass	MIL-L-2104	Pass
MIL-H-8446	Pass	MIL-L-7808	Pass
MIL-A-8243	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.

Perma-Slik® RAC is available in Gallon, 5-Gallon Pail, Quart and 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: 8/19/02, Latest Revision Date: 8/24/15