

## Technical Data

# Perma-Slik<sup>®</sup> RGAC

Fast Dry, Graphite Solid Film Lubricant

**CURTISS -  
WRIGHT**

**Everlube<sup>®</sup> Products**

Surface Technologies Division

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### Product Description

Perma-Slik RGAC is a graphite based solid film lubricant with an organo-metallic binder system. This coating provides extremely low coefficient of friction, excellent thermal stability and performs best in higher load carrying applications. Generally, this coating will dry to the touch in less than 5 minutes,

### Features / Benefits

- Excellent thermal stability
- Excellent coefficient of friction
- Ideal for field applications which don't require a pretreatment
- Ideal for lighter load carrying applications

### Markets

- Elastomeric Parts
- Automotive
- Industrial Machinery & Equipment
- Mechanical Components

### Typical Applications

- Locking mechanisms, latches and rods
- Guide, rails and tracks
- Bearing, cams, gears, and shafts
- Elastomeric parts

### Physical Properties

Lubricating Solid:	Graphite
Binder	Organo-Metallic
Color and Appearance*	Gray/Black Matte Finish
Carrier	Solvent Based
Solids (by weight)*	21 to 25%
Density*	7 ± 0.5 lb/gal (839 ± 60 grams/liter)
Flash Point	15°F (-9°C)
Volatile Organic Compound	700 grams/liter (5.85 lb/gal)
Theoretical Coverage <sup>1</sup>	322 ft <sup>2</sup> /gal @ 0.5 mils (7.8 m <sup>2</sup> /liter @ 12.7 microns)
Alternative or repair coatings	Perma-Slik RGAC is suitable for touch up applications on Everlube 629, Everlube 823 and Formkote T-50 thermally cured coatings

### Processing Information

Dry Film Thickness	0.2 to 0.6 mils (5 to 15 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 6 hr. @ 65°F to 85°F at greater than 50% relative humidity
Suggested Pretreatment	Grit Blast
Suggested Application Methods:	Dip Spin / Spray

For additional information, please see Processing Bulletin # 3017

**Typical Functional Properties**

	<u>ASTM Test Method</u>	<u>Value</u>
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	.06 to .12
Operating Temperature Range		-100° to 1200°F (-73° to 649°C)
Load Carrying Capacity	ASTM D2714	<40,000 psi
Wear Life	ASTM D2714	120,000 cycles

**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		

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® RGAC is available in Gallon, 5-Gallon Pail, Quart

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

<sup>1</sup> Based on 100% transfer efficiency at a dry film thickness of 0.0005 inch (12.5 microns).

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