

Technical Data

Perma-Slik[®] RMT PTFE/MoS₂, Solid Film Lubricants

**CURTISS -
WRIGHT**

Everlube[®] Products

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Product Description

Perma-Slik RMT is a PTFE/MoS₂ based solid film lubricant with an organo-metallic binder systems. This air dry coating was specially designed to eliminate galling and seizing in fastener related applications. Perma-Slik RMT also provides very good wear life, thermal stability and performs in light load carrying applications. Generally, this coating will dry to the touch in less than 5 minutes.

Features / Benefits

- Excellent wear resistance
- Good chemical resistance
- Eliminates galling and seizing
- Provides excellent lubricity

Markets

- Medical
- Mechanical Components
- Fabricated Metal Parts
- Elastomeric Parts

Typical Applications

- Assorted fasteners
- Threaded connectors and disconnects
- Rails, guides, and tracks
- Springs and coils

Physical Properties

Lubricating Solids	PTFE, MoS ₂
Binder	Organo-Metallic
Color and Appearance*	Matte black finish
Carrier	Solvent borne
Solids (by weight)*	40% to 44%
Density*	8.2 ± 0.5 lb/gal (983 ± 60 grams/liter)
Flash Point	15°F (-9°C)
Volatile Organic Compound	571 grams/liter (4.76 lb/gal)
Theoretical Coverage ¹	664 ft ² /gal @ 0.5 mils (16.2 m ² /liter @ 12.7 microns)
Alternative or Repair Coatings	N/A

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
Dilution Ration	Concentrate to 1:1 (product: solvent) by volume
Cure Cycle	1 to 6 hr. @ 65°F to 85°F at greater than 50% relative humidity
Suggested Pretreatment	Grit blast
Suggested Application Method	Dip Spin/Spray

For additional information, please see Processing Bulletin #3017

(Continued)

Typical Functional Properties

	<u>ASTM Test Method</u>	<u>Value</u>
Corrosion Resistance		
Test Panel	ASTM B117	< 72 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	. 0.04 - 0.06
Operating Temperature Range		-100° to 500°F (-73° to 260°C)
Load Carrying Capacity	ASTM D-2714	< 20,000 psi
Wear Life	ASTM D-2714	

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 InformationShelf 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 RMT is available in Gallon, 5-Gallon Pail, and 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

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

Issue Date: 05/12/03, Latest Revision Date: 8/3/17