Technical Data

Perma-Slik® RMAC

Fast dry, MoS_2 Solid Film Lubricant

Everlube® Products
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Product Description

Perma-Slik RMAC is a MoS_2 based solid film lubricant with a moisture-reacting, air dry organo-metallic binder system. This coating provides very good wear life, thermal stability and performs best in higher load carrying applications. Generally, this coating will dry to the touch in less than 5 minutes and requires minimal pretreatment, making it ideal for applications where extensive pretreatment and/or elevated curing temperatures are not practical. The binder in this coating is not compatible with water and caution should be taken to insure no water is introduced into the coating during processing. Specifications for this product can be found at: https://everlubeproducts.com/specification/

Features / Benefits

- Very good wear life
- Very good thermal resistance
- Ideal for field applications
- Ideal for higher load carrying applications

Markets	Typical Applications
• Mechanical components	• Bushings, rotary joints, cams and pins
• Automotive	• Guide and sliding rails
• Industrial machinery & equipment	• Bearing guides and sleeves
• Elastomeric parts	• Elastomeric components

Physical Properties

Lubricating Solids:	MoS_2
Binder:	Organo-metallic
Color and Appearance:*	Gray/black matte finish
Carrier:	Solvent borne
Solids (by weight):*	28% to 32%
Density:*	8.0 ± 0.5 lb/gal (923 ± 60 grams/liter)
Flash Point:	15°F (-9°C)
Volatile Organic Compound:	645 grams/liter (5.6 lb/gal)
Theoretical Coverage:[1]	279 ft^2/gal @ 0.5 mils (6.7 m^2/liter @ 12.7 microns)
Alternative or Repair Coatings:	Perma-Slik RMAC is suitable for touch up applications on any of our MoS_2 based thermally cured coatings

Processing Information

Dry Film Thickness	0.2 to 0.7 mils (5 to 18 microns)
Dilution/Cleanup Solvent:	Heptane, Toluene, or RAC Solvent. Xylene or VM&P mineral spirits may be used as a retarder solvent.
Dilution Ratio (For Spray):	1:1 to 2:1 (product to solvent) Adjust as needed
Cure Cycle:	1 to 6 hours 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:

	ASTM Test Method	Value
Corrosion Resistance		
Test Panel	ASTM B-117	<24 hrs @5% neutral salt spray
Test Panel Coating Method		0.7 mil on grit blasted steel panel
Abrasion Resistance	ASTM D-4060	Fair
Coefficient of Friction	ASTM D-2714	.04 to .06
Operating Temperature Range		-325°F to 750°F (-198°C to 399°C)
Load Carrying Capacity	ASTM 2625, Method B	>250,000 psi
Wear Life	ASTM 2625, Method A	>120 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		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 RMAC is available in 5-gallon pails, gallons and quarts.

Warranty:
No representation or 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 (12.7 microns).

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