

FLUOROPOLYMER COATINGS

DESCRIPTION

Lincoln Industries' fluoropolymer ArmorLinc[®] Vault coatings provide excellent friction, galling, and fretting reduction properties that exhibit a wettable or non-wettable matrix for various surface tension requirements. These coatings can operate at a wide range of temperatures on a variety of substrates. In addition, they provide outstanding chemical, corrosion, thermal shock and impact abrasion resistance.

With our expert engineering team and in house testing lab, we are able to formulate advanced coating solutions to meet the challenges of our customers' requirements.

APPLICATION EXAMPLES

- ▶ Brake Components
- ▶ Power/Drivetrain Components
- ▶ Fasteners
- ▶ Fluid/Gas Flow Valves
- ▶ Pumps/Impellers

INDUSTRIES

- ▶ Aerospace
- ▶ Agriculture
- ▶ Automotive
- ▶ Defense
- ▶ Energy
- ▶ Food processing
- ▶ Heavy trucking
- ▶ Marine
- ▶ Plastics/rubber
- ▶ Medical
- ▶ Professional grade tools
- ▶ Powersports

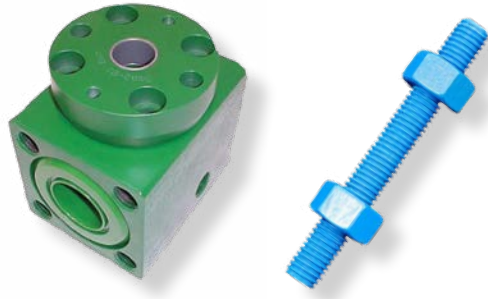
PRODUCT BENEFITS

- ▶ Chemical/corrosion resistance
- ▶ Low friction coefficient
- ▶ Release properties
- ▶ High operating temperatures
- ▶ Color options
- ▶ Thin film thickness
- ▶ Dielectric properties
- ▶ Applicable on a variety of substrates
- ▶ Food grade
- ▶ Warranty reduction
- ▶ Thermal shock resistance

- ▶ EGR Components
- ▶ Piston Skirts
- ▶ Rotary Actuators
- ▶ Bearings
- ▶ Tie Rods
- ▶ Detent/Poppet Valves

PREMIUM PROVEN QUALITY SOLUTIONS

ARMORLINC® VAULT



TESTING MATRIX

RESULT	TEST	PROPERTY
Film Thickness	0.8-2.0 mils (20-50 Micron)	ASTM D7091, ASTM B487
Hardness	3H	ASTM D3363
Thermal Cycle	No loss of adhesion, flaking, burning or discoloration	OEM Standard
Thermal Shock	No loss of adhesion, flaking, burning or discoloration	OEM Standard
Adhesion	X-cut 5A	ASTM D3359
Impact	No visual detection of cracking, peeling, chipping or flaking	ASTM D2794
Corrosion	No more than 1/8" corrosion from scribe line	ASTM B117, ASTM D1654
Humidity Resistance	No loss of adhesion, staining, spotting or discoloration	ASTM D4585
Chemical Resistance	No loss of adhesion or coating deterioration to the following chemicals: engine oil, engine degreaser, antifreeze, windshield fluid, water, brake fluid, ethanol, ether, diesel fuel, bio-diesel, diesel heat, DEF, ATF, sulfuric acid and hydrochloric acid	Lincoln Industries' Standard
Coefficient of Friction	0.02-0.10	ASTM D1894
Dielectric Properties	1400 Volts at 1 Mil.	ASTM D148
Friction Coefficient	.15-.35 Static	ASTM D1894
Load Pressures	+135,000 psi-155,000 psi	
Temperature Capabilites	-250° to 550° F (-156°-260°C)	
Color Availability	Red, Black, Blue, Gray, Green *others available	

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