



Technical Data Sheets

Product Description: In coating terms, Al's Liner is acrylic-reinforced aliphatic aromatic polyurethane. In laymen's terms it is a chemically engineered product that uses the best characteristics of polyurethane (aliphatic aromatic blend polyurethane has incredible strength), and when combined with our patented acrylics blend, adds ease of application and UV stability. Until the Al's Protective Coatings breakthrough in the mid-1990's, successfully combining an oil-based and a water-based coating had never been accomplished. Al's Liner stands alone in this class.

Al's Liner can be batch mixed in any quantity and yields excellent abrasion resistance, high tensile strength, and superior elongation and tear properties along with excellent color matching abilities. Al's Liner performs exceptionally well in virtually all automotive applications. In addition, Al's is applied with simple, inexpensive spray equipment that simply never malfunctions and will cleanup in less than five minutes. Low equipment and coating cost, along with unequalled performance, makes Al's Protective Coatings one of the most desirable coating products in the world.

Testing Criteria	Duration/Concentration	Method	Results	Standard Used
Tensile Strength			2,300 psi pounds	ASTM-D-638-00
Elongation			453%	ASTM-D-638-00
Tear, Die C			357.1 psi	ASTM-D624-98
Flexibility B Mandrel Bend			Excellent (10-no cracking)	GM9503P
Freezing Temperature			None Determined	
Heat – change in properties		180 F	No Effect	Atkins 33034-F
Cracking/Craze	1,500 hours		Excellent (10)	ASTM-D-660/661
Weathering	2,500 hours	CIE	Excellent (1.54)	QUV 340 lamps
Color Stability	2,500 hours	Hunter	Excellent (-0,45)	SAE-J-1960
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Static Decay	0.08 seconds	10kv	Excellent	Electro-Tech Sys. Md. 406C
Tap Water			No Change	ASTM-D543, practice a
PEAK all weather windshield washer			No Change	ASTM-D543, practice a
STP Brake Fluid			No Change	ASTM-D543, practice a
Zerex Anitfreeze Coolant			No Change	ASTM-D543, practice a
Exxon 5W-30 Motor Oil			No Change	ASTM-D543, practice a
#2 Speedway Diesel Fuel			Slight Swelling (only when left pooled and not allowed to evaporate)	ASTM-D543, practice a

87 Octane Unleaded Gas			Slight Swelling (only when left pooled and not allowed to evaporate)	ASTM-D543, practice a
Battery Acid			Slight Lightening	ASTM-D543, practice a
Ammonium Nitrate			No Change	ASTM-D543, practice a
Hydraulic Fluid (Automobile Grade)			No Change	ASTM-D543, practice a
Hydraulic Fluid (Heavy Equipment Grade)			No Change	ASTM-D543, practice a
Rock Salt Solution			No Change	ASTM-D543, practice a

Al's Liner has proven to be an excellent protective coating when applied to:

Steel Aluminum Wood Fiberglass Concrete Ceramic Tile

One of the remarkable properties of Al's Liner is its ability to bond to a variety of surfaces. Some substrates require preparation, while others will require minimal preparation. A good example is untreated wood. Most standard urethane coatings cannot be applied directly to a wood surface, and the moisture in the wood reacts with the chemicals in the urethane and will cause a bubble or de-lamination. Al's Liner is unaffected by moisture and can be sprayed directly to the wood surface.