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Revised 9/6/17

## PRODUCT TECHNICAL DATA BL-1

### DESCRIPTION:

**BL-1** is a Gen II polyurea spray on bed liner formulation. **BL-1** Utilizes renewable resources making this product conform to green standards globally. This product provides a flexible but extremely tough monolithic membrane.

### PROPOSED USES:

**BL-1** is a fast cure, textured surface, purpose built material designed for automotive applications such as pickup truck bed liners. It exhibits excellent adhesion to most materials and is suitable as a protective-abrasive-impact liner for cementitious, wood, and/or metal surfaces. **BL-1** exhibits excellent qualities for military applications. This Gen II renewable chemistry has excellent chemical and moisture resistance.

### PHYSICAL PROPERTIES:

SHORE A HARDNESS (ASTM D-2240)	85 - 90
DENSITY (pcf) (ASTM D-1622)	70
TENSILE STRENGTH (ASTM D-2370)	2300 psi minimum
ABRASION RESISTANCE (taber) (D-4060)	0.3% per 1,000 cycles
ELONGATION % (ASTM D-2370)	300 % minimum
TEAR STRENGTH (ASTM D-1004)	400 pli minimum
MOISTURE VAPOR TRANSMISSION, PERMS (E96)	0.025 @ 30 MILS

**PROCESSING CHARACTERISTICS:**

Component Temperature at Spray Head:	
A Component	145°F - 160°F
B Component	145°F - 160°F
Minimum System Pressure	2200 psi
Gel Time	3-4 sec
Cure Time	24 hours
Recommended Application Temp. Range	50 °F to 90 °F

**Product Application Parameters:**

<b>Property</b>	<b>Test Method</b>	<b>“A”</b>	<b>“B”</b>
Specific Gravity	ASTM D-1638	1.15	1.08
Viscosity	Brookfield LVF	600 cps +100	1000 cps +100
Mixing Ratio	By Volume	1	1
Mixing Ratio	By Weight	53	47
Pounds Per Gallon	From Spec. Gravity	9.6	8.4
Temp. At Spray Gun	N/A	145°F	145°F
Gel time	String	3-4 sec	3-4 sec
Dry to touch	N/A	8-10 sec	8-10 sec
Total Cure	N/A	24 hours	24 hours
Cured Film Working Temp.	N/A	-40°F to 200°F	-40°F to 200°F
Relative Humidity	N/A	MAX 85%	MAX 85%

## APPLICATION REQUIREMENTS

### BL-1

**Spray Equipment:** Spray equipment must be designed to produce a minimum of 2500 psi with an output of 1.5 gallon per minute. The heating component of the equipment must be able to maintain a temperature at the gun of 150 °F. The hose on the equipment must be heated and be rated a minimum of 3,000-psi burst pressure. The spray gun must also be rated at the pressures and throughputs required.

**Substrate Parameters:** The substrate must be dry! A minimum of 5°F above the dew point is mandatory. The ambient relative humidity should not be above 85%. Pin holing may occur if the above parameters are not strictly followed. Applicator shall check initial climatic conditions. A small area shall be sprayed and check for proper application. Applicator may continue, if upon close inspection, the sprayed sample meets quality standards.

**Coverage:** The material theoretically will cover 1,604 square feet at 100 mil dry film thickness. Coverage of the substrate should include a waste factor based on conditions at the site and type of substrate to which the material is being applied.

Call **Bullet Liner** for technical questions. 314-872-8700.

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