

# Technical Data

## PRODUCT TECHNICAL DATA BULLET LINER 1

### DESCRIPTION:

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

### PROPOSED USES:

**BULLET LINER 1** is a fast cure, textured surface, multi-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. **BULLET LINER 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 or less
ELONGATION % (ASTM D-2370)	150 % minimum
TEAR STRENGTH (ASTM D-1004)	400 pli minimum
MOISTURE VAPOR TRANSMISSION, PERMS (E96)	0.025 @ 30 MILS



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## 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:

Property	Test Method	"A"	"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	8.5
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 OF BULLET LINER 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.



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**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 1600 square feet/100 gal drum set 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.

## Disclaimer

The data presented herein is not intended for use by nonprofessional applicators, or those person who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent test in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

Call **Accella Polyurethane Systems** for technical questions. 855-2- BULLET (28-5538).

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