



BULLET LINER 1

DESCRIPTION

BULLET LINER 1 is a Gen II polyurea hybrid spray on elastomer formulation which has low sensitivity to high humidity and moisture in the air or substrate. BULLET LINER 1 provides a flexible but extremely tough monolithic membrane. Exclusive to Bullet Liner dealers worldwide, this flagship formulation has unmatched spray ability and fine grit, uniform finish.

PROPOSED USES

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

PHYSICAL PROPERTIES	
PROPERTY	RESULT
SHORE A HARDNESS (ASTM D-2240)	88-90
DENSITY (pcf) (ASTM D-1622)	70
TENSILE STRENGTH (ASTM D-2370)	15,8 MPa 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

PROCESSING CHARACTERISTICS		
COMPONENT TEMPERATURE AT SPRAY HEAD: A COMPONENT B COMPONENT HOSE TEMPERATURE	66° C - 72° C 66° C - 72° C 66° C - 72° C	
MINIMUM SYSTEM PRESSURE	150 BAR	
GEL TIME	3-4 seconds	
CURE TIME	24 hours	
RECOMMENDED APPLICATION TEMP. RANGE	10° C - 35° C	

Anti-corrosion protection for a steel substrate.
EN ISO 12944-1:2018, EN ISO 12944-2:2018 - CLASS C4 H/C5 M
EN 71-3:2019 - Migration of certain elements - Pass



APPLICATION REQUIREMENTS & PARAMETERS

- Spray equipment must be designed to produce a minimum of 172 BAR with an output of 5,67 liters per minute. The heating component of the equipment must be able to maintain a temperature at the gun of 65° C. The hose on the equipment must be heated and be rated a minimum of 172 BAR burst pressure. The spray gun must also be rated at the pressures and throughputs required.
- 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 checked for proper application. Applicator may continue, if upon close inspection, the sprayed sample meets quality standards.
- The material theoretically will cover 150 square meters/420kg set at 2,5mm 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.

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	
KILOGRAMS PER CUBIC METERS	From Spec. Gravity	1150	1018	
TEMP. AT SPRAY GUN	N/A	65° C	65° C	
GEL TIME	String	3-4 seconds	3-4 seconds	
DRY TO TOUCH	N/A	8-10 seconds	8-10 seconds	
TOTAL CURE	N/A	24 hours	24 hours	
CURED FILM SERVICE TEMP.	N/A	-40° C to 93° C	-40° C to 93° C	
RELATIVE HUMIDITY	N/A	MAX 85%	MAX 85%	

Disclaimer:

The data presented herein is not intended for use by non-professional applicators, or those persons 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; final determination of qualification for said product in any particular application is the responsibility of the buyer/user.

Call Bullet Liner International for technical questions. +49 231 534 679 - 100.

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