

# Technical Data



## INTELLATHANE® 517

### DESCRIPTION:

**INTELLATHANE® 517** is a plural component polyurea hybrid spray-in-place elastomer, designed for high pressure equipment. This product provides a flexible but extremely tough monolithic membrane.

### PROPOSED USES:

**INTELLATHANE® 517** 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 cement, wood, and metal surfaces. **INTELLATHANE® 517** exhibits excellent qualities for military applications.

### PHYSICAL PROPERTIES:

SHORE A HARDNESS (ASTM D-2240)	90-95
DENSITY (pcf) (ASTM D-1622)	70
TENSILE STRENGTH (ASTM D-2370)	2100 psi minimum
ABRASION RESISTANCE (taber) (D-4060)	0.3% per 1,000 cycles
ELONGATION % (ASTM D-2370)	210 % minimum
TEAR STRENGTH (ASTM D-1004)	350 pli minimum
MOISTURE VAPOR TRANSMISSION, PERMS (E96)	0.025 @ 30 MILS



[www.accellapolyurethane.com](http://www.accellapolyurethane.com)  
2500 Adie Road, Maryland Heights, MO 63043  
Phone (314) 872-8700 | Fax (314) 872-8750

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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	2000 psi
Gel Time	3-6 seconds
Cure Time	24 hours
Recommended Application Temp. Range	50 °F to 90 °F

## Product Application Parameters:

Property	Test Method	<u>"A"</u>	<u>"B"</u>
Specific Gravity	ASTM D-1638	1.15	1.03
Viscosity	Brookfield LVF	600 cps +100	900 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	N/A	6 seconds	6 seconds
Dry to touch	N/A	8-10 sec	8-10 sec
Total Cure	N/A	24 hours	24 hours
Cured Film Service Temp.	N/A	-40°F to 200°F	-40°F to 200°F
Relative Humidity	N/A	MAX 85%	MAX 85%



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## APPLICATION REQUIREMENTS INTELLATHANE® 517

**Spray Equipment:** Spray equipment must be designed to produce a minimum of 2000 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.



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