

**PRODUCT DATA – BPL 7000****DESCRIPTION**

**BPL 7000** is a two-component, spray-in-place flexible 100% solids polyurethane/polyurea system. This product provides a flexible but extremely tough monolithic membrane with excellent water and chemical resistance.

**PROPOSED USES**

**BPL 7000** is a fast cure, textured surface, multi-purpose material designed for commercial and industrial applications such as roof coatings, automotive liners, spill containment, retention ponds, etc. It exhibits excellent adhesion to most materials and is suitable as a protective-abrasive-impact liner for cementitious, wood, and/or metal surfaces. The installation of these products may be made in incidental food contact locations and are certified under the FSIS procedures of the USDA. USDA-acceptable and NSF-approved to ANSI-NSF 61 Standard

**TYPICAL PROPERTIES**

Property	Test Method	“A”	“B”
Color	N/A	Lt. Yellow	Tan or Gray
Specific Gravity	ASTM D-1638	1.15	1.08
Viscosity	Brookfield LVF	600 cps +100	1000 cps +100
Mixing Ratio	By Weight	53	47
Pounds Per Gallon	From Spec. Gravity	9.6	8.9

**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	Instantaneous
Cure Time	24 hours
Product Working Temperature Range	-20 °F to 200 °F

**PHYSICAL PROPERTIES**

<b>SHORE A HARDNESS (ASTM D-2240)</b>	<b>85 - 90</b>
<b>DENSITY (pcf) (ASTM D-1622)</b>	<b>70</b>
<b>TENSILE STRENGTH (ASTM D-2370)</b>	<b>2300 psi minimum</b>
<b>ABRASION RESISTANCE (taber) (D-4060)</b>	<b>0.3% per 1,000 cycles</b>
<b>ELONGATION % (ASTM D-2370)</b>	<b>220 % minimum</b>
<b>TEAR STRENGTH (ASTM D-1004)</b>	<b>400 ppi minimum</b>
<b>MOISTURE VAPOR TRANSMISSION, PERMS (E96)</b>	<b>0.025 @ 30 MILS</b>

## APPLICATION REQUIREMENTS

### BPL 7000

**Spray Equipment:** Spray equipment (Such as Graco XP-1 or greater) 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.

#### 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	8.9
Temp. At Spray Gun	N/A	145°F	145°F
Gel Time	N/A	Instantaneous	Instantaneous
Total Cure	N/A	24 hours	24 hours
Product Working Temp.	N/A	-20°F to 200°F	-20°F to 200°F
Relative Humidity	N/A	MAX 85%	MAX 85%

**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 **Burtin Polymer Labs** for technical questions. 770-607-0755.

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