



INTELLATHANE

SL-50

Protective Coating System

DESCRIPTION

Intellathane SL-50 is a 100% solids, spray applied elastomeric protective coating. Intellathane SL-50 is designed to self-level upon application creating a uniform protective coating surface with moderate hardness and high elongation. Intellathane SL-50 is a pure urea system that contains zero VOCs.

PROPOSED USES

Intellathane SL-50 exhibits excellent adhesion to most materials and is suitable as a protective-abrasive-impact liner for concrete, wood, and metal surfaces.

TYPICAL PHYSICAL PROPERTIES

Property	Test Method	Result
Shore A Hardness	ASTM D-2240	85–95
Density (pcf)	ASTM D-1622	55
Tensile Strength	ASTM D-2370	1,500 psi minimum
Abrasion Resistance (taber)	ASTM D-4060	0.3% per 1,000 cycles
Elongation %	ASTM D-2370	210 % minimum
Tear Strength	ASTM D-1004	250 pli minimum
Moisture Vapor Transmission, Perms	E96	0.025 @ 30 MILS

TYPICAL PROCESSING CHARACTERISTICS

Component Temperature at Spray Head: A Component B Component	145° F–160° F 145° F–160° F
Minimum System Pressure	2,000 psi
Gel Time	15–18 seconds
Cure Time	24 hours
Recommended Application Temp. Range	40° F to 90° F

TYPICAL PRODUCT APPLICATION PARAMETERS

Property	Test Method	"A"	"B"
Specific Gravity	ASTM D-1638	1.09	1.019
Viscosity	Brookfield LVF	400 cps +100	400 cps +100
Mixing Ratio	By Volume	1	1
Mixing Ratio	By Weight	51	49
Pounds Per Gallon	From Spec. Gravity	9.08	8.49
Temp. at Spray Gun	N/A	145° F	145° F
Gel Time	String	15–18 seconds	15–18 seconds
Dry to Touch	Touch	24 seconds	24 seconds
Total Cure	N/A	24 hours	24 hours
Product Working Temp.	* non immersion	-40° F to 200° F	-40° F to 200° F

APPLICATION REQUIREMENTS

Spray Equipment: Spray equipment must be designed to produce a minimum of 2,000-psi with an output of 1.5 gallons 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 ambient temperature 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.

Coverage: The material theoretically will cover 1,604 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.

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