



# INTELLATHANE

## NSF-61

Protective Coating System – High Performance Polyurea Coating Designed for Potable Water Applications

### DESCRIPTION

Intellathane NSF-61 is a 100% solids, spray applied elastomeric protective coating approved for use in applications with direct contact with drinking water and drinking water system components. Intellathane NSF-61 has been tested and certified in accordance with the NSF/ANSI Standard 61 and meets the regulatory requirements for use in public drinking water distribution systems, storage, and other potable water applications in North America. Intellathane NSF-61 is a pure urea system that contains zero VOCs and exhibits excellent adhesion to a wide variety of substrates including wood, metal, concrete, fiberglass, and aluminum.

### APPLICATION REQUIREMENTS & PARAMETERS

- » Spray equipment must produce a minimum of 2,500-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 rated a minimum of 3,000-psi burst pressure. The spray gun must also be rated at the pressures and throughputs required.
- » The substrate must be dry! Proper substrate prep is critical to application success! A minimum ambient temperature of 5° F above the dew point is mandatory. The ambient relative humidity should not be above 85%. Product working temperature range is -40° F to 280° F. Pin-holing may occur if the above parameters are not strictly followed; it is up to the applicator to check initial climatic conditions. It is recommended that a small area be sprayed and checked for proper application.
- » 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.
- » Liquid materials should be stored at temperatures between 55° F and 95° F in sealed containers. The A-side component should always be blanketed with nitrogen gas. Material shelf life is 6 to 12 months. Consult product SDS for proper safety and handling procedures of components.

### TYPICAL PHYSICAL PROPERTIES

Property	ISO Component	Poly Component
Brookfield Visc. @78° F, 20 RPM	600 CPS	1,000 CPS
Weight/Gallon	9.42 LBS	8.42 LBS
Color	Clear Yellow	Neutral, Black
Processing Data		
Mix Ratio (Parts by Vol.)	1:1	
String-Gel Time	5 Seconds	
Dry-To-Touch Time	8 Seconds	
Final Cure Time	72 Hours	
Cured Property	Test Method	Result
Color	N/A	Neutral or Black
Durometer	ASTM D2240	65 Shore D
Tensile Strength	ASTM D412	3,700 PSI
Elongation	ASTM D5034	380%
Die-C Tear Strength	ASTM D624	600 PLI
Abrasion Resistance	ASTM D624	0.3% Loss @ 1,000 cycles
Dolly Adhesion	ASTM D4541	> 2,000 PSI
Moisture Vapor Transmission, Perms	ASTM E96 (Procedure B)	1.62 @ 50 MILS



## NSF PROPERTIES

Coating Function	Size
Fittings	>=5 in
Pipe	>=5 in
Pump	>=5 in
Tank	>=1,000 gal
Valve	>=5 in
Coating	
Colors	Neutral, Black
Number of Coats	1-4
Max. Field Use Dry Thickness (mils)	100 mils (20 mils/coat)
Recoat Cure Time and Temperature	5 seconds at 72° F
Final Cure Time/Temperature	72 hours at 72° F
Special Comments	Mix ratio of Part A:B is 1:1 by volume
Category: PMTL, Section 5 – Barrier Materials	
Material Type	Polyurea (PUA)
Temperature	Cold (73° F / 23° C)

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CALL CARLISLE POLYURETHANE SYSTEMS FOR TECHNICAL QUESTIONS. (888) 899-9665.



Certified to  
NSF/ANSI 61

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