

Technical Data



INTELLATHANE ELITE SHIELD-61

HIGH-PERFORMANCE POLYUREA COATING DESIGNED FOR POTABLE WATER APPLICATIONS

Intellathane Elite SHIELD-61 is a 100% solid, no VOC's, rapid-curing pure polyurea coating that boasts impeccable physical properties. Designed to be used in potable water applications, this premier spray elastomer provides remarkable protection and durability while being drinking-water safe in water tank applications greater than 1,000 gallons, and in piping applications where the pipe diameter is greater than 5 inches. It offers excellent adhesion to most substrates and can be used in a range of other applications where premier-level performance is critical.

ISO. COMPONENT		POLY. COMPONENT
TYPICAL PROPERTIES		
BROOKFIELD VISC. @78°F, 20RPM	600 CPS	1000 CPS
WEIGHT/GALLON	9.42 LBS.	8.42 LBS.
COLOR	Clear Yellow	Black
TYPICAL ROCESSING DATA		
MIX RATIO (PARTS BY VOL.)	1:1	
STRING-GEL TIME	5 Seconds	
DRY-TO-TOUCH TIME	8 Seconds	
FINAL CURE TIME	72 Hours	
TYPICAL CURED PROPERTIES		
COLOR	NEUTRAL OR BLACK	
DUROMETER (ASTM D2240)	65 Shore D	
TENSILE STRENGTH (ASTM D412)	3700 PSI	
ELONGATION (ASTM D5034)	380%	
DIE-C TEAR STRENGTH (ASTM D624)	600 PLI	
ABRASION-RESISTANCE (ASTM D624)	0.39% Loss @ 1,000 cycles	



Certified to
NSF/ANSI 61

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.



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All technical information and recommendations are based on test to be reliable. The Company does not, however, guarantee the results to be obtained and makes no warranties, express or implied.

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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 be 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 – 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. A-side component should always be blanketed with nitrogen gas. Material shelf-life of 6 - 12 months. Consult product SDS for proper safety and handling procedures of components.

Trade Name(s)	Function(s)	Size
Intellathane ELITE SHIELD - 61	Coatings - Fittings	>= 5 in
	Coatings - Pipe	>= 5 in
	Coatings - Pump	>= 5 in
	Coatings - Tank	>= 1000 gal
	Coatings - Valve	>= 5 in
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Coating Notes:		
Colors:	Neutral, Black	
Number Of Coats:	1-4	
Maximum Field Use Dry Thickness(in 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	
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Category:	PMTL, SECTION 5 - BARRIER MATERIALS	
Material Type: Polyurea (PUA)	Temperature:	Cold (73 °F / 23 °C)



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