



SELECTION & SPECIFICATION DATA

Generic Type	Solvent free aromatic polyurethane, ASTM D16 Type V
Description	Polyclad 767 is a top-tier pipe coating engineered for superior performance in safeguarding both pipeline interiors and exterior pipes. Specifically formulated to excel in various applications, this cutting-edge coating is designed to provide exceptional protection for water transmission pipelines, wastewater treatment facilities (both municipal and industrial), and interior tank linings. Elevating its versatility, Polyclad 767 extends its protective prowess to include exterior pipe services, ensuring comprehensive coverage for both the interior and exterior surfaces.
Features	<ul style="list-style-type: none"> • Fast curing rate increases throughput • Superior wetting properties result in better edge retention and excellent adhesion to steel • Mix ratio of 1:1 and user friendly application properties • Unlimited build with single multi-pass coats • Self priming (120 mil maximum for potable water) • Meets AWWA C222 • UL approved for ANSI/NSF Std. 61 potable water
Color	Blue (0100), Grey (0700)
Finish	Gloss
Primer	None needed - direct to steel
Dry Film Thickness	20 - 120 mils (508 - 3048 microns) per coat
Solids Content	By Volume 100% +/- 1%
Theoretical Coverage Rate	1604 ft ² /gal at 1.0 mils (39.4 m ² /l at 25 microns) 80 ft ² /gal at 20.0 mils (2.0 m ² /l at 500 microns) 13 ft ² /gal at 120.0 mils (0.3 m ² /l at 3000 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : <0.04 lbs/gal (5 g/L)* *Calculated value
Limitations	Due to its aromatic composition Polyclad 767 will tend to yellow or darken in exterior UV exposure. This will not affect performance.

SUBSTRATES & SURFACE PREPARATION

General	All surfaces must be clean, dry and free of oil, grease, loose mill scale, dirt, dust or other materials which would impair the bond of the coating to the substrate.
Steel	<ul style="list-style-type: none"> • Remove dirt/dust/grease/oil following SSPC-SP1 • Abrasive blast to SSPC-SP10 • Achieve a minimum 3.0 mil “angular” anchor profile • Ensure dust/smut from blasting operation does not interfere with adhesion • Apply Polyclad 767 prior to any flash rusting or contamination fall-out

PERFORMANCE DATA

All test data was generated under laboratory conditions. Field testing results may vary.

Test Method	System	Results
Abrasion Resistance ASTM D4060	Polyclad 767	58 mg loss
Adhesion to Steel ASTM D4541	Polyclad 767	Minimum 1500 psi
Cathodic Disbondment ASTM G-95	Polyclad 767	<8 mm
Dielectric Strength ASTM D149	Polyclad 767	>700 V/mil
Flexibility ASTM D522	Polyclad 767	PASS 3 inch
Hardness ASTM D2240 Shore D	Polyclad 767	> 70 Shore D
Impact Resistance ASTM G14	Polyclad 767	100 in-lbs
Water Absorption ASTM D570	Polyclad 767	<1.3%
Wet Adhesion ASTM D870	Polyclad 767	PASS

MIXING & THINNING

Mixing | General Mixing Guidelines: Power mix Part A & B separately until the pigments are dispersed in to a homogenous liquid. DO NOT BATCH MIX A & B.

Ratio | 1:1 by volume

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

Spray Application (General) | Applicators must be knowledgeable with the proper safety guidelines, operation and maintenance of the spray equipment - pumps, hoses, heaters, spray gun.

Airless Spray | Use only heated plural component airless equipment with 1:1 mix ratio. The plural airless pump must have a minimum capability of 1.25 gallons per minute with a fluid pressure of up to 3,000 psi. The recommended spray system is a Graco Reactor or WIWA PU 460 plural component system utilizing typical transfer pumps to supply both the resin and catalyst to the spray system, in-line heaters capable of heating the material up to 160 °F as needed, heated hose bundle, and a Graco Fusion Plural Component Gun. Other equipment of equal capabilities may suffice. Contact Carboline Technical Service Department for alternate spray equipment recommendations. We recommend that the applicator perform a mock up prior to and after mobilizing to the jobsite to be sure all equipment is performing properly.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	130°F (54°C)	45°F (7°C)	35°F (2°C)	0%
Maximum	150°F (66°C)	120°F (49°C)	120°F (49°C)	85%

Maximum recoat time is 2 hours. Abrade surface and wipe clean for application beyond maximum recoat window. Polyclad 767 is ready for holiday testing when it reaches dry to handle state. Industry standards are for substrate temperatures to be 5 °F (3 °C) above the dew point.

Caution: This product in the liquid stage is moisture sensitive and needs to be protected from high humidity, dew and direct moisture contact until cured to a firm state. Application and/or curing in humidity above maximum, or exposure to moisture from rain or dew may result in a loss of gloss, micro bubbling, and/or blistering of the product.

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Touch
75°F (24°C)	15 Minutes	3 Minutes

TESTING / CERTIFICATION / LISTING

Potable Water Certifications	Potable Water Use Limitations @ 75°F (24°C):
	<p><i>Meets drinking water criteria of NSF/ANSI/CAN 600</i></p> <p>Max DFT: 120 mils (3048 microns)</p> <p># Coats: 1</p> <p>Tank Rating: >1,000 gal (3785.41 Liters)</p> <p>Pipe Rating: 12" or larger (30.48 cm)</p> <p>Valve Rating: 12" or larger (30.48 cm)</p> <p>Thinning: N/A</p> <p>2 Day Cure Required before service</p> <p>Approved Colors: 0300 (Green), 0700 (Grey), 0100 (Blue)</p>

CLEANUP & SAFETY

Cleanup	Use Thinner 2 or 76. In case of spillage, absorb and dispose of in accordance with local applicable regulations.
Safety	Read and follow all caution statements on this product data sheet and on the SDS for this product. Employ normal workmanlike safety precautions. Use adequate ventilation. Keep container closed when not in use.
Caution	This product does not contain flammable solvents, however, clean-up solvents that may be used do contain flammable solvents. Keep away from sparks and open flames. All electrical equipment and installations should be made and rounded in accordance with the National Electric Code. In areas where explosion hazards exist, workers should be required to use non-ferrous tools and wear conductive and non-sparking shoes.

PACKAGING, HANDLING & STORAGE

Shelf Life	Part A or B: 12 months Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers.
Storage Temperature & Humidity	40-110 °F (4-43 °C) 0-100% Relative Humidity
Storage	Store indoors and keep dry. Blanket all partial drums with nitrogen gas to prevent moisture contamination. Avoid freezing. Do not open until ready to use.
Shipping Weight (Approximate)	10 gal unit: 101 lbs 110 gal unit: 1,135 lbs Part A (ISO): Red color containers Part B (Resin): White color containers
Flash Point (Setaflash)	<ul style="list-style-type: none"> Part A: >350 °F (>176 °C) Part B: 330 °F (165 °C)

WARRANTY

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