

SELECTION & SPECIFICATION DATA

Generic Type	Structural Aromatic Polyurethane, ASTM D16 Type V
Description	Polyclad 757 is a high performance pipe lining specially designed for the protection of steel, concrete and DIP pipeline interiors. Typical applications are pipeline interiors for raw water transmission, wastewater transmission and treatment (Municipal and Industrial). Polyclad 757 provides protection against microbiologically induced corrosion (MIC) and hydrogen sulfide corrosion found in wastewater treatment service.
Features	<ul style="list-style-type: none"> • Resistant to corrosion caused by MIC and hydrogen sulfide • Outstanding abrasion and impact resistance • Fast curing • Low temperature cure • Superior wetting properties • Excellent adhesion to steel and DIP • Mix ratio of 1:1 and user friendly application properties. • Unlimited build with single multi-pass coats. • Self priming • Meets AWWA C222
Color	Standard colors are Brown (0200) and Black (0900)
Dry Film Thickness	20 - 125 mils (508 - 3175 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 125.0 mils (0.3 m ² /l at 3125 microns) Allow for loss in mixing and application.
VOC Values	As Supplied : <0.04 lbs/gal (5 g/L)* *Calculated value

SUBSTRATES & SURFACE PREPARATION

General	Surfaces <u>must</u> be properly cleaned. Employ adequate methods to remove dirt, dust, oil and all other contaminants that could interfere with adhesion of the coating. Contact Carboline for specific recommendations.
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 757 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	1 coat Polyclad 757	40 mg loss
Adhesion to Steel ASTM D4541	1 coat Polyclad 757	Minimum 1500 psi
Cathodic Disbondment ASTM G-95	1 coat Polyclad 757	<8 mm
Chemical Resistance ASTM D543	1 coat Polyclad 757	Pass 30 day immersion
Dielectric Strength ASTM D149	1 coat Polyclad 757	>700 V/mil
Flexibility ASTM D522	1 coat polyclad 757	PASS 3 inch
Hardness ASTM D2240 Shore D	1 coat Polyclad 757	76+ Shore D
Impact Resistance ASTM G14	1 coat Polyclad 757	80 in-lbs
Water Absorption ASTM D570	1 coat Polyclad 757	1%
Wet Adhesion ASTM D870	1 coat Polyclad 757	PASS

MIXING & THINNING

- Mixing** | General Mixing Guidelines: Power mix Part B until the pigments are dispersed in to a homogenous liquid. Part A does not need to be mixed. DO NOT BATCH MIX A & B. DO NOT THIN Polyclad 757.
- 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 and spray gun).
- Airless Spray** |
- Use only heated plural component airless equipment.
 - Plural airless pump must have 1:1 ratio capability along with 1.25 gallons per minute with a fluid pressure up to 3000 psi.
 - A and B components must be between 90-120 °F(32-49 °C) before pumping.
 - Paint system setup that can transfer coatings from heated drums to the proportioners and maintain heated material to the spray tips
 - Contact Carboline Technical Service for specifics.
- Brush & Roller (General)** | This product is not designed to be rolled. Brush can be used to repair small areas. Hand mix a small amount of Polyclad 757 slow set for 30 seconds and then apply to prepared area. Brush with 1 to 3 strokes and do not over brush.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	130°F (54°C)	35°F (2°C)	35°F (2°C)	1%
Maximum	150°F (66°C)	120°F (49°C)	120°F (49°C)	85%

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.

Note: For applications on concrete, please contact Carboline Representative for proper application procedure.

CURING SCHEDULE

Surface Temp.	Dry to Handle	Dry to Touch
75°F (24°C)	14 Minutes	3 Minutes

Polyclad 757 may be tested for holidays as soon as it is dry to handle.

CLEANUP & SAFETY

Cleanup	Use Thinner 2 or 76 solvents. To clean lines, use Thinner 76 followed by Carboline's Polyclad Line Stabilizer for long term storage. Contact Carboline Technical Service for cleaning recommendations. 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 grounded in accordance with the National Electric Code. In areas where explosion hazards exist, workmen 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) Store indoors and keep dry. Blanket all partial drums or totes with nitrogen gas to prevent moisture contamination. Avoid freezing. Do not open until ready to use
Shipping Weight (Approximate)	<ul style="list-style-type: none"> Shipping weight (Approximate) 9.4 lb/gal. (4.3 kg/gal.) Packaging: 10, 110 & 540 gal. kits
Flash Point (Setaflash)	Part A (Iso) >350 °F (>176 °C) Part B (Resin) >330 °F (>165 °C)

WARRANTY

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