PRODUCT DATA SHEET

SERIES 457 | CPP SPRAYLINER 61™

PRODUCT PROFILE

GENERIC DESCRIPTION
Ultra-High Build, Structural-Grade, Spray-Applied Microfiber Reinforced Polymer (FRP) Modified Polyamide Epoxy

COMMON USAGE
Epoxytec CPP Sprayliner 61™ is a two-component, spray-applied, 100% solids polycyclic amine epoxy. This liner is engineered as an ultra-high build, high-strength microfiber-reinforced polymer (FRP) applied liner. It is designed to protect against corrosion while sealing from inflow and infiltration (I&I). Epoxytec CPP Sprayliner 61™ is specifically designed for use in potable, drinking water environments (certified NSF/ANSI/CAN Standard 61) where high film strength and durability are required to deliver sealed barrier protection against corrosion and I&I. This is achieved by the product's formulated balance of properties of high-strength, acid protection, and high surface acceptance to saturated surface dry (SSD) conditions with the ability to cure within high humidity environments. Epoxytec CPP Sprayliner 61™ is an excellent product for applicators seeking to utilize plural component heated spray equipment to achieve ultra-high build applications with sag resistance up to 3/8" (375 mils).

COLORS
5034 Potable Blue

FINISH
Orange-peel

SPECIAL QUALIFICATIONS
Underwriters Laboratories Inc.® classified to **NSF/ANSI/CAN Standard 61**, and the extraction requirements of **NSF/ANSI/CAN 600** for use in potable water storage.

COATING SYSTEM

SURFACER/FILLER/PATCHER
Mortartec Ceramico, Mortartec Silicate, Series N140F, Series 217, Series N218, CPP Trowel-Liner.

PRIMERS
Self-priming, Series N140F

TO TOPCOAT WINDOW AT 75°F (24°C)

Primer	Minimum	Maximum
Series N140F	3 hours	7 days
CPP Trowel-Liner	*	5 days
Series 457	*	5 days

SURFACE PREPARATION

CONCRETE
Allow new cast-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Prepare the concrete by abrasive blasting, high or ultra-high pressure water cleaning, and/or approved mechanical method to achieve clean, sound, and profiled concrete in accordance with SSPC-SP 13/NACE No. 6. "Surface Preparation of Concrete." A minimum ICRI profile of CSP 5 or higher shall be achieved with a minimum pH 9. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer. **Note:** Epoxytec CPP Sprayliner 61™ is self-priming and may be applied direct to concrete (DTC). However, should an abnormal or conditional situation exist (i.e. outgassing, MVT, etc), primers and/or resurfacers (although optional) can assist, and may be recommended.

STEEL
Before preparing steel, please inspect and remove oil, grease, or other contaminants. Abrasive blasting (or other approved mechanical methods) must be used in order to achieve a clean surface in accordance with SSPC-SP 10/NACE No. 2 "Near White Blast Cleaning" and a minimum profile of 4.0 mils (100 microns). To prevent flash rusting, consider the use of a Tnemec recommended holding primer.

ALL SURFACES
Surface must be clean, sound and profiled. Remove all dust, contaminants, grease, curing compounds, rust, impregnation, waxes, foreign particles, and disintegrated materials from

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the surface, in order to achieve a clean and profiled surface. Methods outlined herein are a basis of design for generalized guidance. Refer to epoxytec.com for various detailed CSI-formatted project design guidelines, and/or consult with Epoxytec for other specific design considerations.

TECHNICAL DATA

VOLUME SOLIDS
100%

RECOMMENDED DFT
Mild Conditions, as a Protective Coating, Non-Structural: 80.0 mils (2032 microns) minimum.
I&I or Aggressive Conditions, as a High Strength Liner, Structural Film: 125.0 mils (3175 microns) minimum
For Potable Water: Refer to **Underwriters Laboratories Inc.®** website for film thickness listings.
Note: "Structural" reference herein describes an applied and bonded high-strength film designed to hold back low pressure inflow/infiltration (I&I) and other low pressure water transmission through concrete. For structures requiring fully structural design consideration, criteria and variables will need to be calculated for specific design thickness recommendations by a licensed professional engineer.

CURING TIME

Temperature	Non-Potable Water	Potable Water
140°F (60°C)	30-45 minutes	72 hours
120°F (49°C)	2-4 hours	72 hours
95°F (35°C)	10-12 hours	72 hours
77°F (25°C)	24 hours	72 hours

VOLATILE ORGANIC COMPOUNDS (VOCs)
0.00 lbs/gal (0 g/l) (EPA Method 24)

THEORETICAL COVERAGE
1,604 mil sq ft/gal (39.3 m²/L at 25 microns). See APPLICATION for coverage rates.

NUMBER OF COMPONENTS
Part A (Epoxy) and Part B (Amine).

MIXING RATIO
By volume: one (Part A) to one (Part B).

PACKAGING

	Part A (partially filled)	Part B (partially filled)	Yield (mixed)
Extra Large Kit	55 gallons	55 gallons	100 gallons (378.6 L)
Large Kit	6 gallon pail	6 gallon pail	10 gallons (37.9 L)

NET WEIGHT PER GALLON
9.82 ± 0.25 lbs (4.5 ± 0.11 kg) (mixed)

STORAGE TEMPERATURE
For optimum handling and application characteristics both material components should be stored or conditioned between 70°F (21°C) and 85°F (29°C) 48 hours prior to use.

TEMPERATURE RESISTANCE
Contact your Tnemec representative for more information.

SHELF LIFE
24 months at recommended storage temperature.

FLASH POINT - SETA
>230°F (110°C)

HEALTH AND SAFETY
This product contains chemical ingredients which are considered hazardous. Read container label warning and Safety Data Sheet for important health and safety information prior to the use of this product. **Keep out of the reach of children.**

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m^2/Gal)
Minimum (Non-Structural)	80.0 (2032)	80.0 (2032)	20 (1.86)
Minimum (Structural Film)	125.0 (3175)	125.0 (3175)	12.8 (1.19)
Maximum (per coat)	375.0 (9525)	375.0 (9525)	4.28 (0.4)

Note: For potable water applications, visit **Underwriters Laboratories Inc.®** website for current film thickness listings.

MIXING

Requires specialized plural application equipments. See APPLICATION EQUIPMENT

THINNING

Do not thin.

PURGE TIME

3 minutes at 105°F (41°C)

APPLICATION EQUIPMENT

Epoxytec CPP Sprayliner 61™ is designed to be sprayed utilizing specialized equipment sold by approved equipment vendors of Epoxytec. This is a heated, plural component system. Epoxytec limits the sale of Epoxytec CPP Sprayliner 61™ until all equipment and know-how is validated. For detailed spray equipment specifications, heating, pressure, power, hose specs, purging/cleaning requirements or designs- contact Tnemec Technical Services.

SURFACE TEMPERATURE

Minimum 45°F (7°C) Maximum 130°F (54°C)

MATERIAL TEMPERATURE

Epoxytec CPP Sprayliner 61™ is designed to be sprayed utilizing specialized heated plural component. Material conditioning parameters are detailed on spray equipment specifications and Application Guide - contact Tnemec Technical Services.

CLEANUP

Purge and clean with Tnemec No. 42 Thinner.