



PPC 1121

POLYESTER POLYMER CONCRETE BRIDGE DECK OVERLAY

- More than 35 years of proven performance history
- Rapid 2 hour cure, even in cold and humid conditions
- Penetrating healer/sealer primer fills and rebond cracks and promotes overlay adhesion beyond the original bond line
- Complete seal of bridge deck surface from chloride and moisture intrusion

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DESCRIPTION

PPC 1121 Polyester Polymer Concrete is a pre-mixed polymer concrete made of polyester binder resin and graded silica-quartz aggregates with a High Molecular Weight Methacrylate (HMWM) primer system that develops true composite action with the substrate. PPC 1121 is designed for bridge deck overlays, patching and joint header applications for the rehabilitation and preservation of existing and new bridge structures that require long term performance, impermeability to chlorides and moisture, abrasion resistance, ease of construction and rapid traffic return after placement.

APPLICATIONS

- Bridge deck overlay
- Concrete grade correction
- High performance bridge joint header
- High performance patching

FEATURES/ BENEFITS

- 2-hour traffic return from 40–100°F
- 3/4" to 12" thick in a single lift
- Variable thickness placement
- Impermeable to moisture and chloride ions
- High skid resistance for the life of the overlay
- High production placement options
- Simple to specify; easy to apply
- Successful in a broad range of climates

PHYSICAL PROPERTIES

Quality Characteristic	Test Method	Average Result
Compressive Strength	ASTM C39	> 6,000 psi
Tensile Strength	ASTM C1583	> 600 psi
Modulus of Elasticity	ASTM C469	1,000-2,000 ksi
Coefficient of Thermal Expansion	ASTM T336	$<10 \times 10^{-6}$ in/in/°F
Abrasion Resistance	CT 550	<2g weight loss
Bond Strength	CT 551, SSD w/ HMWM	>700 psi
	CT 551, SSD w/o HMWM	>500 psi
Permeability	ASTM C1202	10 coulombs



FOR MORE INFORMATION:

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