



FasTrac CE320 Polyester Binder

POLYESTER CONCRETE OVERLAY



Technical Data Sheet

PRODUCT DESCRIPTION

FasTrac CE320 Polyester Binder is a rapid curing, high strength, high performance polymer binder for polyester bridge deck overlays. Used in conjunction with FasTrac CE325 HMWM Primer, FasTrac CE320 Polyester Polyester Binder forms an integral bond to existing substrates and ensures long term substrate and deck protection. FasTrac CE320 Polyester Binder exceeds AASHTO Standard T-34 Guide Specifications for Polymer Bridge Deck Overlays.

APPLICATIONS

- Bridge Deck
- Grade Corrections
- Parking Decks
- Concrete Pavements
- Joint Repairs

FEATURES

- High-Strength
- Rapid Turnaround
- Impermeable to Chlorides & Moisture
- Low Modulus
- Thermally Compatible

SURFACE PREPARATION

Condition surfaces to between 40°F and 100°F (4.4°C and 38°C) for best results. Areas should be structurally sound, dimensionally stable, dry and roughened for best results. Mechanically roughen substrate via shot-blasting or similar means. Ensure removal of all existing coatings and overlays. Blow out all areas with oil free compressed air.

MIXING

A trial mix is recommended before commencing work to determine working time and turnaround time. Mixing is best accomplished with automated equipment via volumetric mixing. Volumetric mixers must be properly calibrated prior to work. FasTrac CE320 Polyester Binder is designed for use at binder contents of approximately 12% with typical DOT aggregates. Mix 4 gallons FasTrac CE320 Polyester Binder with 10 ounces (74 ml) of Nouron CADOX D-50 MEKP. Mix for one minute. While mixing, add 300 lbs. (136 kg.) of aggregate and mix until aggregate is completely wetted. To accelerate system, up to 0.3% (by weight) FasTrac CE320 Catalyst may be added to the mix.

INSTALLATION

Placement thickness may be from 3/4 inch (18 mm) to 12 inches (300 mm). Apply FasTrac CE325 HMWM Primer uniformly to refusal to substrate. Do not puddle primer. Apply FasTrac CE320 Polyester Binder within 12 to 15 minutes of primer application. Placement is best achieved through slipform pavers or vibratory screeds on larger overlays. Standard finishing tools may be used to level, screed and move material. Place only amount of material that can be done so within its pot life.

CURING

Product is self-curing. Do not add solvents. Protect from rain and traffic until minimum strength requirements are achieved.

CLEAN UP

All surfaces, tools and equipment may be cleaned with acetone, MEK or other suitable solvent prior to product hardening.



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PACKAGING

250-gallon totes, tanker cars. Contact FasTrac Construction Products for more information.

SHELF LIFE AND STORAGE

Shelf life: 6 months shelf life when stored in dry, weatherproof conditions. Storage temperatures 40°F to 90°F (4.4°C to 32°C).

TYPICAL PROPERTIES at 75° F (23.8° C)	
TEST METHOD	RESULTS
BINDER PROPERTIES	
Viscosity	70 - 220 cP
Gel Time (60 g mass)	20 - 30 minutes
ACI 1583 Bond to Concrete	300 psi (2.0 MPa) 100% substrate failure
CT 551 PCC Saturated Surface Dry Bond	Substrate Failure
Styrene Content %	40-50%
ASTM C884 Thermal Compatibility	Pass
ASTM D570 Water Absorption	0.2%
ASTM D638 Tensile Strength 7 Days	>2,500 psi (17.2 MPa)
ASTM D638 Tensile Elongation 7 Days	>30%
ASTM D638 Tensile Modulus 7 Days	>150,000 psi (1,030 MPa)

HEALTH AND SAFETY INFORMATION

This product contains POLYESTER resin and CATALYST. Wear proper PPE when using this product, including gloves, eye and skin protection and NIOSH / MSHA approved ORGANIC respirator. Read SDS thoroughly before use. Prop 65: This product contains chemicals known by the state of California to cause cancer.

LIMITED WARRANTY

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Every reasonable effort is made to apply exacting standards both in the manufacture of "FasTrac CE320 Polyester Binder" product and in the information which we issue concerning these products and their use. We warrant our products to be good quality and will replace or, at our election, refund the purchase price of any products proved defective. Satisfactory results depend not only on quality products, but also upon many factors beyond our control. Therefore, except for such replacement or refund, Cornerstone Construction Material LLC (CCM) makes no warranty or guarantee, express or implied, including warranties of fitness for a particular purpose or merchantability, respecting its products, and Cornerstone Construction Material LLC (CCM) shall have no other liability with respect thereto. Any claim regarding a product defect must be received in writing within one year of the date of shipment. No claim will be considered without such written notice or after the specified time interval. The User shall determine the suitability of the products for the intended use and assume all risks and liability in connection therewith. Any authorized change in the printed recommendations concerning the use of our products must bear the signature of the Cornerstone Construction Material LLC (CCM) technical manager.

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