

Echem

A Meridian Brand

Thin Polymer Overlays (1/8" - 3/8")



EPX50-RC



Fast-Setting, Low-Modulus, Epoxy Urethane Co-Polymer

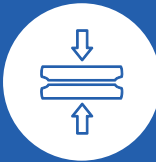
Cure Time
@ 75 °F



ASTM
D1640

≤2 hrs

Compressive Strength
24 hrs with sand



ASTM
C579

>7,000 psi

Tensile Elongation
@ 75 °F



ASTM
D638

50-60%

Rapid return to service for tight lane closures

Description

EPX50-RC (Rapid Cure) delivers fast, high-strength performance for infrastructure applications. This moisture-insensitive epoxy-urethane overlay forms a durable, waterproof, anti-skid surface ideal for bridge decks, elevated slabs, and high-friction treatments. Suitable for single or multi-layer use, it also functions as a binder in epoxy mortars.

Advantages & Features

- Fast-setting for quicker turnaround
- Epoxy urethane technology
- Excellent bond strength
- Moisture insensitive
- Nonflammable
- Easy to mix - 1:1 ratio, color coded
- No primer required
- Designed for plural component pump or hand mix applications

Applications

- Bridge decks
- Elevated slabs
- Parking decks
- Roadway high-friction surface applications
- Patching mortar

Compliances & Certifications

- AASHTO M235 / ASTM C881 Type III Class B & C
- AASHTO M353 & M354
- AASHTO PEAS (NTPEP) tested
- BABA compliant
- Meets >1,000 psi in 3 hours requirement
- No Hazmat endorsement required for domestic US transport

EPX50-RC
&
EPX50-SC
share the
same universal
resin.

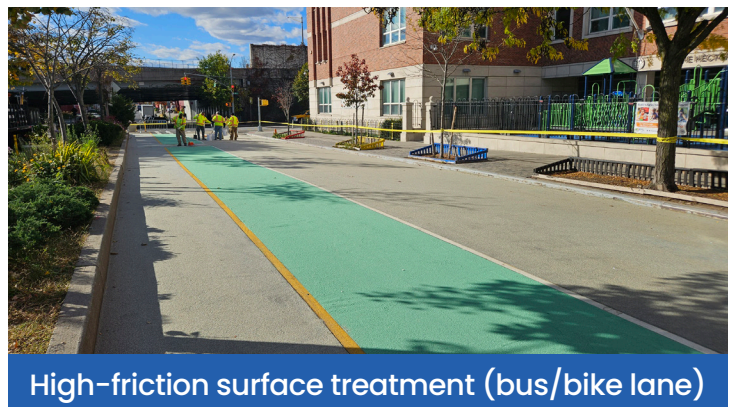
Material Properties

- **Coverage:**
 - Course 1:
1 gal/40 ft² epoxy; 10 lbs./yd² aggregate
 - Course 2:
1 gal/20 ft² epoxy; 14 lbs./yd² aggregate
- **Gel time (75 °F):** 15–20 minutes
- **Cure rate (75 °F):** ≤2 hours
- **Percent solids:** 100%
- **Bond strength (14-day cure):** >2,000 psi
- **Compressive modulus (neat):** <120,000 psi
- **Tensile strength (75 °F):** >3,000 psi
- **Shelf life:** 2 years in original, unopened containers
- **Color:** Green tint, when mixed
- **Storage:** 50 °F to 95 °F in dry and dark conditions

Packaging

- 2-gallon unit
- 10-gallon unit
- 110-gallon unit
- 500-gallon unit

Typical Applications



To speak with our technical staff, please call

505-217-2121

echem

 **Meridian**
Infrastructure