

An ACI Standard

Specification for Type EM (Epoxy Multi-Layer) Polymer Overlay for Bridge and Parking Garage Decks

Reported by ACI Committee 548

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This Specification covers epoxy multi-layer (EM) polymer overlay for bridge and parking garage decks. Type EM polymer overlay incorporates a low-modulus epoxy binder and selected aggregate to produce a flexible, skid-resistant, and low-permeability overlay. The overlay may be used for both new construction and rehabilitation of existing structures. The overlay is placed by applying the neat epoxy binder to the surface and broadcasting aggregate. This Specification includes requirements for epoxy resin, aggregates, storage and handling, surface preparation, surface profile, mixing, placement, quality control and quality assurance.

Keywords: bridge decks; epoxy; multi-layer; parking garage decks; polymer overlay; surface preparation; low permeability.

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