

PROJECT PROFILE



Project: Thin bridge overlays, USA

Designer: Various State Departments of Transportation

Contractor: Various Contractors.

Gemite products: **Gem-Crete HDO (heavy duty overlay).**

Objective: provide a thin waterproofing, abrasion and impact resistant layer for exposed concrete bridge deck overlays. There are a large number of bridge decks in USA without a membrane and asphalt overlay. The water and chloride (salt) cause corrosion of the deck reinforcing steel and concrete deterioration. In many cases a "thick" (5-7 cm) latex or micro-silica enhanced concrete can be used to repair the decks, but sometimes a lightweight "thin" (1 -1.5 cm) layer is required in order not the load bearing capacity of the bridge structure to be downgraded. **Gem-Crete HDO** has been successfully used in this application for over 20 years. A long term study of **Gem-Crete HDO** overlay on a major highway in the USA, prepared by the Arkansas Department of Transportation for the Federal Highway Administration is available on request.



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