

# RIO GRANDE BRIDGE - NEW MEXICO

New Mexico Department of Transportation . Protective Bridge Deck Overlay

## PROJECT OVERVIEW



With over 3,710 bridges in the state, NMDOT has a tremendous investment in maintaining these valuable lifeline structures.

The Rio Grande bridge in Albuquerque on I-40 is an impressive structure. Its heavily trafficked deck was starting to show signs of wear; the deck was starting to polish and become slippery. The logistics of any type maintenance on this bridge deck was going to be tough, with constant traffic and an inability to close lanes for any extended amount of time, a solution had to be found.

Bridge deck preservation is a byword within highway agencies, with over 665,000 structures on the US highway system. Many of these structures are reaching the end of their design life cycle and require innovative solutions to extend their ability to safely convey traffic.

Bridge decks require to be waterproofed to protect structural components, to preserve bridge deck expansion joints and keep their decks in good condition. Many nationally sponsored studies have concluded that the treatment of decks with a two-layer polymer resin with a high friction aggregate will extend the life of the deck for upwards of fifteen years.

### Project Highlights

The work schedule set forth by NMDOT required limited nighttime lane closures due to the heavy volume of traffic on this busy section of Interstate.

DBi Services applied two layers of polymer epoxy and high friction aggregate on five travel lanes and two emergency lanes on each side of the bridge deck.

### Relevant Experience Gained

- A record for two-layer bridge deck overlay installation was achieved on this project with the DBi Services crews installing 14,000 square yards of two-layer bridge deck overlay in one working shift.
- Installed safely, on-time and within the parameters of the NMDOT specifications.
- The traveling public were not inconvenienced nor at any time were they exposed to dangerous work practices because of operatives wielding squeegees and shovels next to live interstate traffic.

### Value to Customer

- The timely application of epoxy/aggregate bridge deck overlays has been estimated to extend bridge deck life by 20-25 years.
- HFST is classified by the Federal Highway Administration as a low-cost safety countermeasure.
- Fully-automated, specification-compliant application trucks.
- Safe, predictable, fast and continuous application.



**High Friction Surfacing Treatments are eligible for federal and state funding through HSIP (Highway Safety Improvement Programs)**

WORLD HEADQUARTERS:

100 North Conahan Drive . Hazleton PA 18201-7355 USA | +1 570 459 1112 . Toll Free 800 360 9333 | info@dbiservices.com

LOCATIONS WORLDWIDE

www.dbiservices.com

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