

The Bridges of Utah County

SUMMARY

The State of Utah embarked on a large-scale infrastructure investment project to restore and expand the I-15 Corridor, a 25-mile stretch of roadway, in an effort to advance economic development within the state and meet the demand for improved transportation systems through the year 2030. The I-15 Corridor serves over 120,000 cars a day. One of the largest and most significant project components is the replacement of 55 aging bridges throughout Utah County.

CUSTOMERS

Utah Department of Transportation (UDOT)

ProTech Coatings, Inc. — an industrial construction company specializing in concrete repair and restoration

Provo River Constructors — Consortium awarded the design-build contract for the I-15 Core project

PROJECT

- I-15 CORE in Utah County, Utah
- Transportation

CHALLENGE

As part of the I-15 CORE project, the Utah Department of Transportation (UDOT) specified that a polymer overlay be used on 55 new bridge decks, totaling approximately 1.1 million square feet, within the interstate system to withstand extreme weather conditions, thermal cycles, snow plows and heavy traffic.

To assist them in their bid to secure the overlay subcontract for the project, ProTech Coatings, a leading concrete repair and restoration contractor approached Unitex® for a product solution that would meet the criteria for performance, value and efficiency.

SOLUTION

Prior to the I-15 CORE project, Unitex spent a significant amount of time demonstrating to UDOT how their overlay system would comply with set specifications. This effort resulted in the specification of Pro-Poxy Type III DOT. That, combined with Unitex's respected reputation throughout the industry for high quality products and unparalleled technical



Expanding and improving the I-15 Corridor to encourage economic growth and handle projected traffic economically meant that concrete pavement was widened and the road surface of replaced bridges would be treated to withstand demanding conditions.



ProTech and Unitex worked together to create a product to meet the demanding UDOT criteria for protecting the surface of 55 new bridges to help them withstand extreme weather and heavy traffic conditions.

support, prompted ProTech Coatings to seek out the company's expertise. Together, ProTech Coatings and Unitex presented UDOT and the I-15 CORE project's design-build contractor, Provo River Constructors with the winning plan to provide product, equipment and technical support to meet the project's performance requirements and a rigid time schedule.

"A former manufacturer failure jeopardized the continuance of the UDOT Bridge Overlay Program. Because of Unitex, UDOT's confidence was restored," explained Chad Diamond of ProTech Coatings. "We choose Unitex for material confidence and understanding the needs of the customer."

RESULTS

- Unitex was able to assist ProTech in negotiating the I-15 CORE subcontract for the bridge overlays
- Unitex built a mechanical pump system specifically for this project and provided training to the operator
- ProTech developed specialized application equipment and self-performed the entire project
- Pro-Poxy III DOT met UDOT's specifications because of the ability to withstand extreme weather conditions, thermal cycles, snow plow use and heavy traffic
- Continued productivity as Unitex was able to provide materials and technical assistance on demand

RESOURCES

Learn more about Pro-Poxy III DOT at: www.daytonsuperior.com.

UNITEX PRO-POXY III DOT PRODUCT SPECIFICATIONS

- Superior tensile elongation at low temperatures
- Excellent UV stability
- Meets AASHTO T 277 for resistance to chloride ion penetration
- Thermally compatible with concrete
- Moisture insensitive, non-flammable
- Low modulus, high tensile strength
- ASTM-C-881 Type III Grade 1, Class B and C

RELATED PRODUCTS FROM DAYTON SUPERIOR

- Pro-Poxy™ 2500
- Pro-Poxy™ 40 LV LM
- Unitex® Bridge Seal



Unitex devised a pump system for this project, training the operator to provide the optimal application.