# Burnett River Bridge, Queensland, Australia

## PSX® 700 restores 100-year-old historic landmark to its former glory

**Case study**

**The Customer**
Queensland Government – RoadTek

**The Location**
Wide Bay-Burnett, Queensland, Australia

**The Challenge**
To protect and beautify the historic Queensland landmark with an effective coating solution that reduces environmental footprint and extends coating service life

**The Solution**
The PSX 700 patented engineered polysiloxane topcoat

**The Benefits**
The PSX 700 system is a fast-dry, easy to apply, high-gloss coating, with superior color and gloss retention. Its excellent corrosion and abrasion resistance is also greater than that of traditional epoxy

**The Result**
The solution has rejuvenated the iconic Queensland bridge and made it a vibrant, distinctive landmark once again. Its unlimited recoat window will also save the owner future maintenance time and money

### The Customer

RoadTek is a leading commercial business within the Department of Transport and Main Roads, specializing in the transport infrastructure sector for both new construction and maintenance projects throughout Queensland, Australia.

With accreditation to national and international standards, RoadTek is instrumental in the delivery and maintenance of projects that make up the state's extensive road and bridge network. The organization provides statewide services through a number of integrated business streams including civil construction and maintenance, structures, electrical, and line marking supported by an internal construction fleet.

### The Challenge

RoadTek was looking for a coating solution that would effectively protect the 100-year-old landmark against corrosion, which was easy to apply with high-gloss aesthetics.

Therefore, the organization called for a 18 months  product trial in 2004 with ease of application, final appearance and extended protection as the main criteria for the final selection of the chosen coating system.

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## The Solution

To meet RoadTek's specific criteria, PPG proposed the PSX 700 coating system, which has a 20-year track record, as the ideal solution.

The PSX 700 coating system proposed for this project comprised: SIGMAZINC™ 109HS high-solids, zinc-rich epoxy primer; AMERLOCK® 400 MIO high-solids, micaceous iron oxide coating; PSX 700 engineered polysiloxane coating.

Following the completion of the 18 months testing process in 2005, RoadTek chose the PPG system based on best application and extended protection test results.

## The Benefits

This major bridge project required the product excellence and technical expertise that signifies PPG's knowledge and experience on similar projects throughout the world.

The PSX 700 high-solids and fast-dry system is easy to apply with corrosion resistance greater than that of traditional epoxy. The high-gloss coating also has superior color and gloss retention than that of the best polyurethane in the market. Moreover, its low VOC and no isocyanate composition minimize impact to the environment while extending coating protection.

Its unlimited recoat window requires no sandblasting for future maintenance. The coating simply requires wash, dry and recoat with another coat of the PSX 700 topcoat, thereby saving future maintenance time and money for owner.

**Benefits of PSX 700:**

- Extended color and gloss retention
- Excellent corrosion protection for ISO 12944 C5 environment
- Lead free
- No isocyanate
- High solids (90% ± 2)
- Low VOC (84 g/L)
- Unlimited recoat window
- 20-year track record

## The Result

The PSX 700 system has brought back to life the historic 100-year-old landmark and restored the iconic bridge to its former glory that is the pride of Queensland once again.

Ideally suited for a major structure such as this, the system will provide exceptional color and gloss retention with excellent corrosion- and abrasion resistance against varying weathering conditions. In addition to the exceptional aesthetic appearance of the bridge, the owner will also benefit from the system's extended protection service life and reduced maintenance costs.

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