

Missouri River Bridge

PPG makes a high profile project cost efficient with excellent gloss retention and abrasion resistant.

Case study



The Customer

MODOT

The Location

Jefferson City, MO

The Challenge

An original specification for the Missouri River Bridge was written around a three coat inorganic zinc/epoxy/urethane system and included the complete closure of the westbound lane for four months. MODOT and Saffo Contractors were looking for ways to expedite the schedule and still deliver a quality job, so they opted to use the MODOT approved two coat Dimetcote 9VOC inorganic zinc and PSX 700 Polysiloxane system. A heavy blast profile that required a thicker than normal coat of inorganic zinc was causing excessive pinholes in the finish coat, creating a challenge for the contractor.



The Solution

PPG quickly acted and found a cost effective solution to fix the problem. The zinc was sealed off using Amerlock Sealer, a penetrating epoxy sealer, and then PSX 700 Polysiloxane was applied. Most surfaces were primed with Dimetcote 9VOC Inorganic Zinc. Bolts and hard to reach areas were coated with Dimetcote 302H, reinforced Inorganic Zinc Primer. All surfaces were sealed with Amerlock Sealer and then finished with PSX 700 Polysiloxane.

The Benefits

Dimetcote 9VOC Inorganic Zinc was recommended and is on MODOT's QPL specification, as well as the two coat system consisting of Dimetcote 9VOC and PSX 700 Polysiloxane. If the original three coat system had been used, Amerlock Sealer would still have been required due to the heavy blast profile and the contractor would have had to apply four coats. By using PPG's products, one coat of labor and a full coat of material was saved.

The Result

Saffo Contractors stated they have never been so well supported on a project through these challenges with the help of the local PMC representative and PMC Field Technical Service team.

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