

Kentucky Transportation Center

October 17, 2012



Presentation Topics

- Coatings
- Painting options
- Preserving coatings
- No/low maintenance coatings & materials

Coatings

- Low-tech (alkyds, acrylics, dispersions)
 - Simple to apply-no worker safety or overspray concerns
 - Used for a range of bridge painting options
- High-tech (epoxies, urethanes, fluoropolymers)
 - More durable-more problematic
 - Primarily used for complete bridge painting projects

Bridge Superstructure Painting Options

- Spot painting
- Zone painting
- Overcoating
- Total removal-replacement

Selecting Painting Option

Let the Bridge Talk to You!



Selecting Painting Option Let the Bridge Talk to You!



Selecting Painting Option Let the Bridge Talk to You!



When to Paint













Zone Painting-Low Tech



Zone Painting-Low Tech



Zone Painting-Low Tech

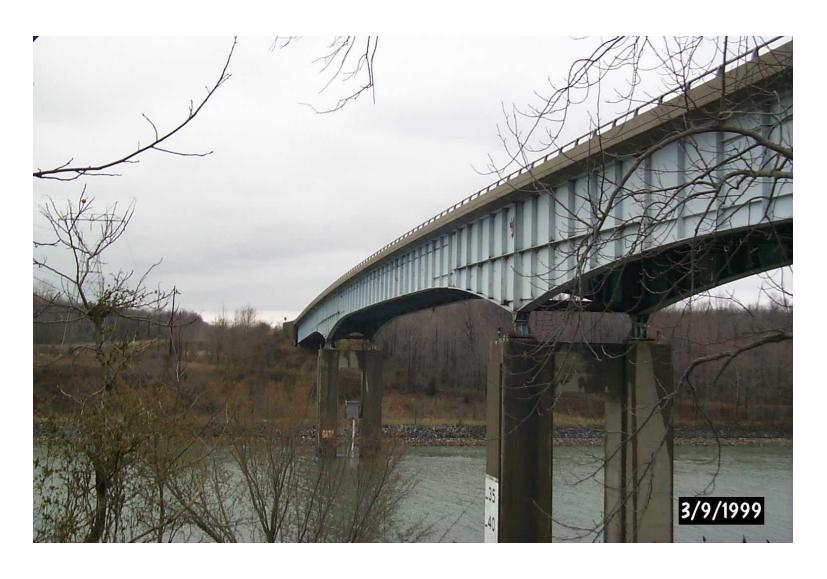




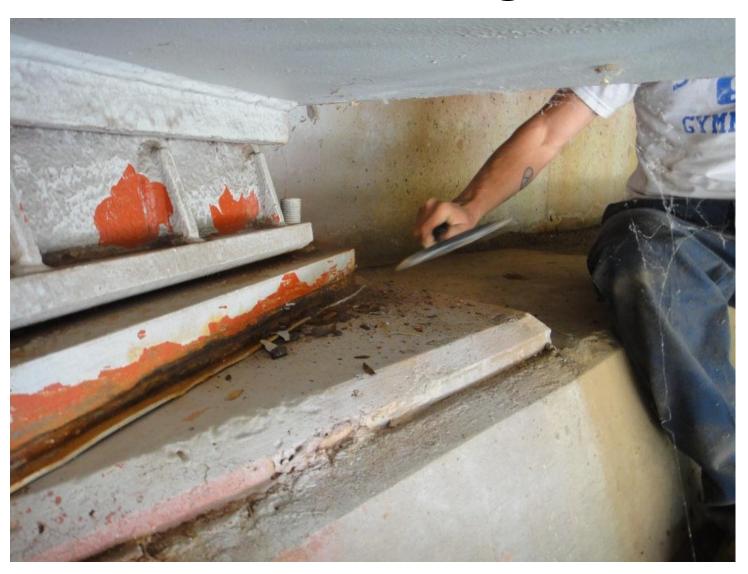












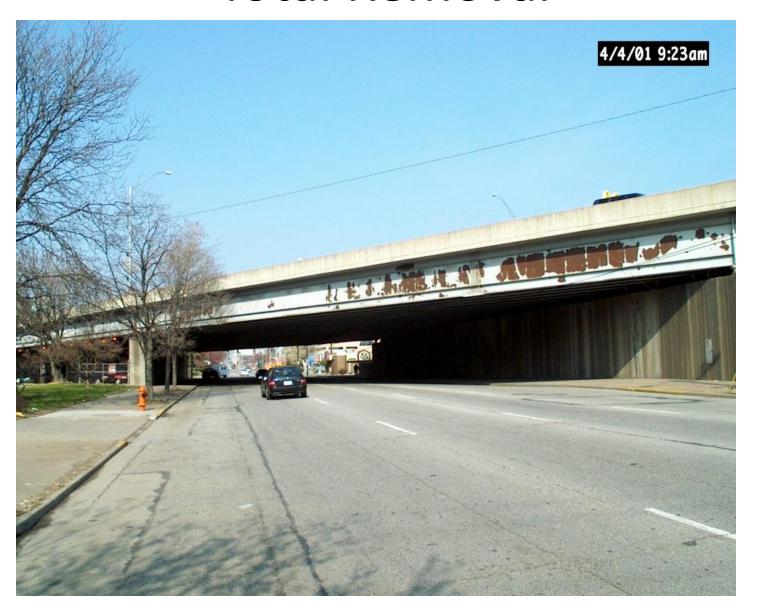


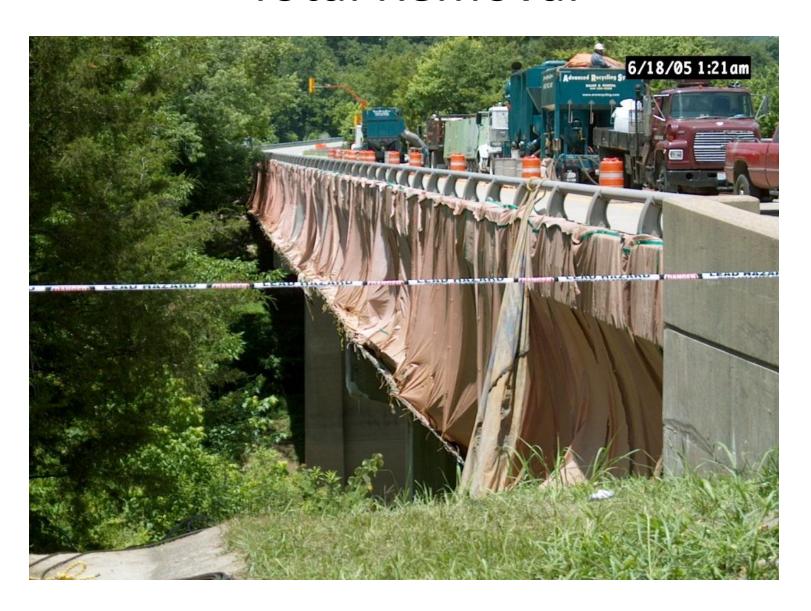




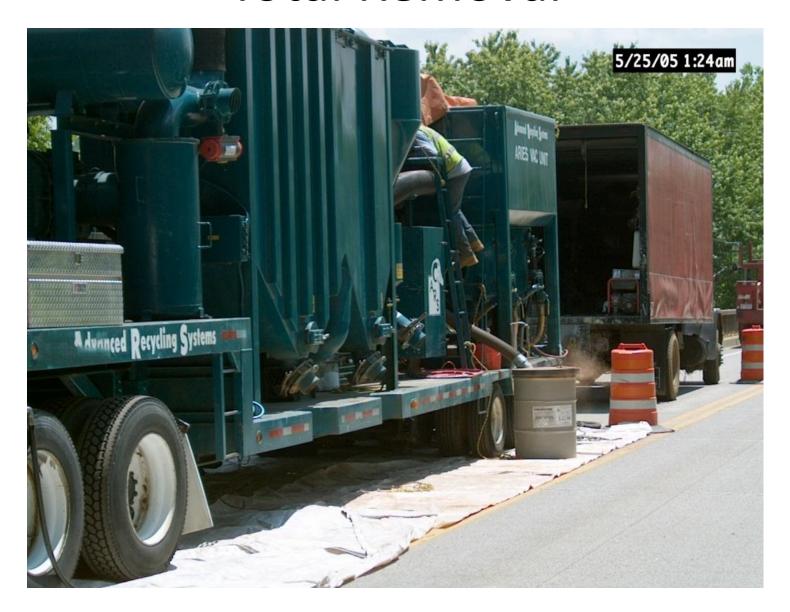


















Coatings Preservation by Preventive/ Routine Maintenance





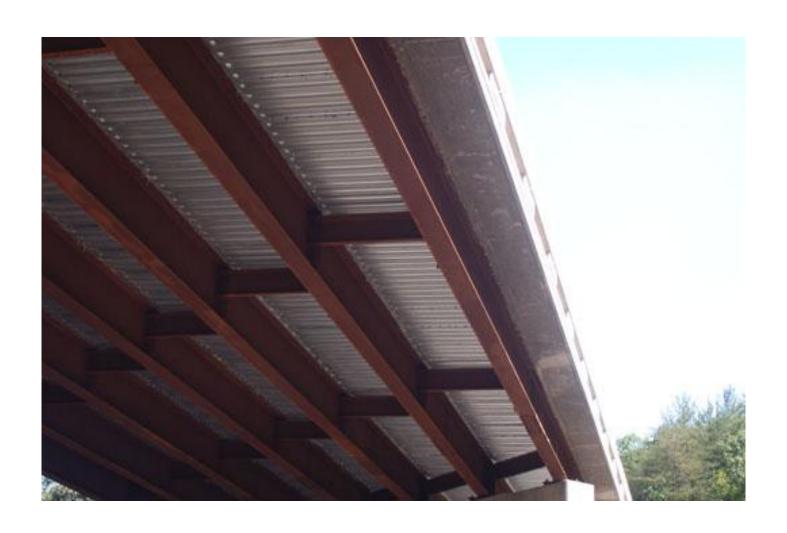








No/Low Maintenance Superstructure Coatings/Materials



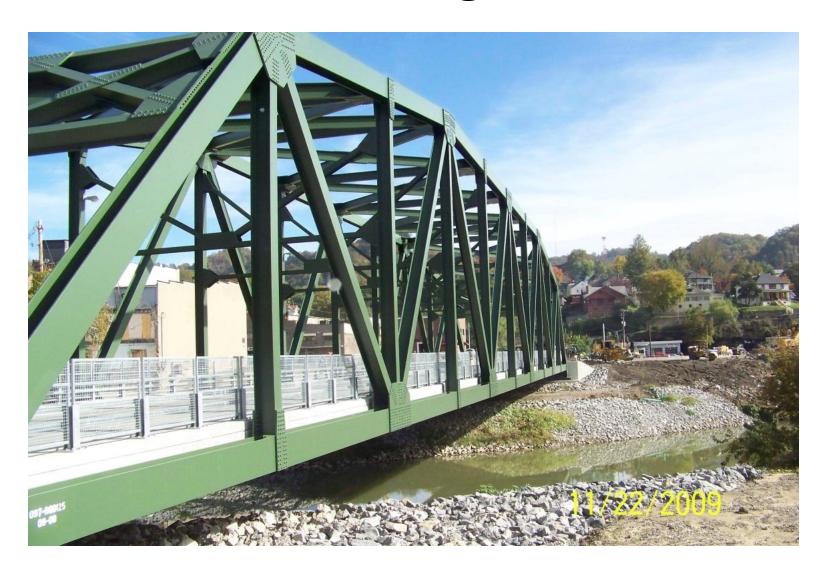












Galvanized Steel



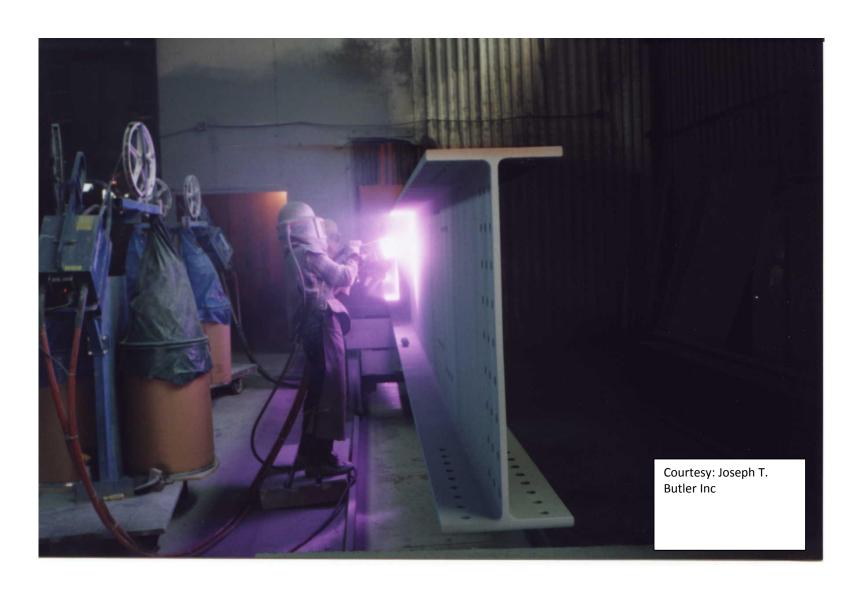
Galvanized Steel



Galvanized Steel



Metalized Steel



Metalized Steel



Metalized Steel



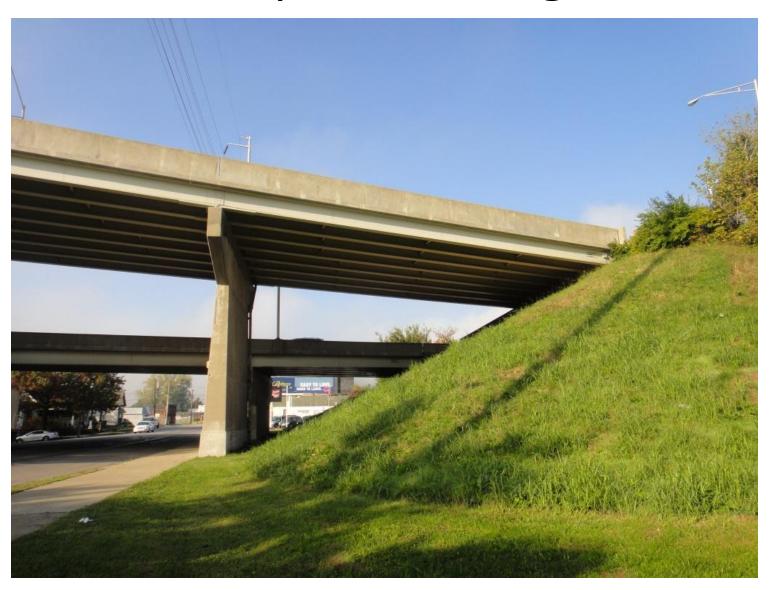
Duplex Coatings



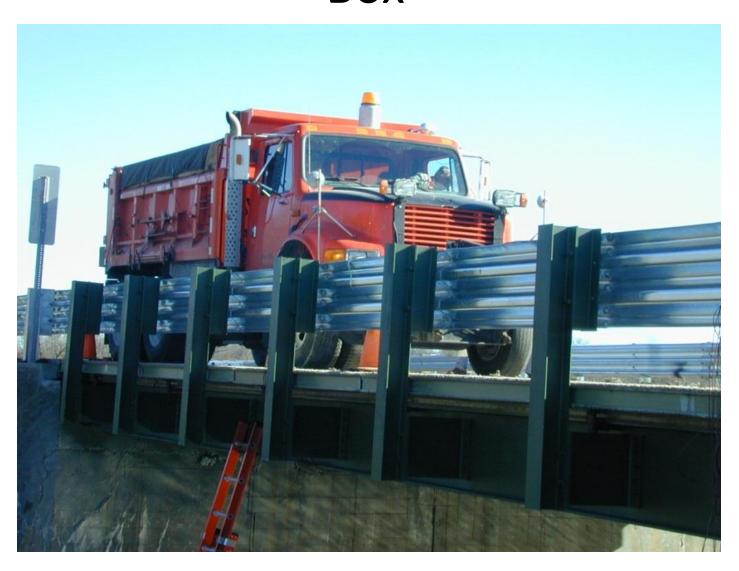
Duplex Coatings



Duplex Coatings



Bridge Superstructures "Outside the Box"



Bridge Superstructures "Outside the Box"



Bridge Superstructures "Outside the Box"



Conclusions

- We have painting options for bridge superstructures
- Other no/low maintenance coatings & material options exist
- These options enable us to select a "best practice" for preserving each bridge superstructure

