AASHTO/NSBA Thermal Spray Coating Specification

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TG8 - Chair
• S8.2 – Specification for the Application of Thermal Spray Coatings to Steel Bridges

• A Joint Document – AASHTO/SSPC/NSBA
Background
The TSC Process
Videos

• Canam
• Flat Plate
Specification History

- Started in fall of 2015
- Survey to States (34 responses)
  - 7 state had TSC spec. (all different)
- Task group consisted of ~50
- Goal: Develop an agreed upon Standard Specification for TSC
- Balloted via SSPC & AASHTO/NSBA
- Last step: Ballot at SCOBS, June 15.
Owner Involvement

States Involved in Development
- New York
- Rhode Island
- North Carolina
- Florida
- Texas
- California
- Illinois
- Massachusetts
- Virginia
- New York State Thruway
- FHWA
Owner Involvement

States Involved in Development
  – New York (Scott Lagace)
  – Rhode Island
  – North Carolina
  – Florida (Steve Duke)
  – Texas (Tom Schwerdt)
  – California
  – Illinois
  – Massachusetts
  – Virginia
  – New York State Thruway
  – FHWA
Key Points in Specification
Key Points

• Personnel
• Equipment
• Materials
• Surface Preparation
• Application of TSC
• Sealer and Topcoat
• Inspection and Testing
• Geometry and Inaccessible Areas
Comments From States
State Comments

5 Total Comments:
• Minnesota DOT
• Texas DOT

• Majority were editorial and formatting comments.
C9.3: Visible oxidation of TSC depends on environmental conditions. Reapplication of TSC over TSC is most likely to occur in the context of a repair or to address insufficient thickness; deliberate use of a partial-thickness “hold coat” followed by later buildup to required thickness is not recommended, although it is permitted by the Joint Standard.
THE Best Thermal Spray Coating (Metallizing) Specification
Questions?