High Friction Surface Treatment
Field Experience

Todd Richardson PE
March 6, 2019
INDOT Contract T-40130

- Bid January 18, 2018
- Bid Amount $1.12 Million
- 23 Curves at 15 Locations throughout Indiana
- 11 American Structurepoint staff were used at various times and locations
- RAM Construction Services was the prime contractor
- RAM utilized 2 crews to install the HFST
- Final Completion November 6, 2018
- Final Construction Cost $1.19 Million
Patching
Milling, Scarification

• Milling was required when there was an existing chip and seal surface
• Milling was required at 6 additional locations that were not called out in the plans
Shot Blasting

- Shot blasting was required on HMA that had been placed within the past 30 days
Shot Blasting

- SR 32 and SR 47 in Crawfordsville
Final Preparation
Moisture Test

- A plastic sheet, 18 in by 18 in that is left taped in place for a minimum of two hours, shall be used to identify moisture in the pavement.
Protecting Pavement Markings
Equipment
Beginning of Project
Application of Epoxy
Application of Aggregate
HFST Process
Cure Time
Clean Up
Finished Product
Application Rates

- Polymeric Resin Binder
  - 3.5 sys/gal
- Aggregate
  - 11 - 15 lbs/sys
Questions

Michael Holowaty PE, INDOT – Manager, Office of Traffic Safety
Rick Drumm PE, FHWA – Safety Engineer
Shuo Li PhD, PE, INDOT – Traffic Safety and Pavement Friction Engineer
Joe Bruno PE, INDOT – SR Engineer of Signals & Markings
Prakash Patel PE, INDOT – Manager, Traffic Design/Review Group
Todd Richardson PE, American Structurepoint – Project Engineer

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