MAINTENANCE PLANNING GUIDELINES

2/2014

ACTIVITY: Bridge Preventative Mtc (R322) | **ACTION:** Silane & In-Deck Seals (SF)

MAJOR & MINOR

B. In-Deck

DEFINITION: The time and expenses incurred for the application of preventative maintenance treatments to bridges. Examples include bridge seal costs and silane and in-deck seals.

PURPOSE: To seal bridge decks with excessive cracking to prevent intrusion of water and chlorides into the bridge deck.

SCHEDULING: Work should be preformed in temperatures below 75 degrees. Temperatures below 55 degrees may require longer dry times.

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RECOMMENDED **EQUIPMENT:**

- Material Mixing Tank or Barrel
- Traffic Control (See EPG 616.23 Traffic Control for Field Operations)

RECOMMENDED MATERIAL:

- Pavon In Deck
- Water
- **Blotting Material** (sand/cinders)

RECOMMENDED PROCEDURE:

- 1. Contact Dig Rite and others to mark utilities.
- 2. Place traffic control devices as required. Review guidance for use of "Fresh Oil" and "Loose Gravel" signs EPG 616.23.2.7.6 and "No Center Line" signs, EPG 616.23.2.5.7.
- 3. The deck should be completely clean and dry. Remove any loose dirt or dust immediately prior to the application.
- 4. Set temporary pavement marking if needed.
- 5. Cover expansion devices and other features that are not to be sealed over with felt paper.
- 6. Thoroughly mix Pavon In Deck with water at job site to form a 50/50 mixture. Estimate 1 gal. of mixture for each 100 sq. ft. of surface to seal; (0.10 gal/sy)
- 7. Pour material directly onto the surface or apply by other means. Using stiff bristle brooms, uniformly distribute product around the deck surface, making sure not to leave any puddles. Broom parallel along existing tine markings to make sure that material does not fill in texturing. Frequently go back and broom out any puddles that may redevelop.
- 8. Allow product to stand until completely dry. Apply sand to the deck surface while material is still tacky, to help blot excess material, prevent tracking, and improve short-term skid resistance.
- 9. Repeat treatment steps to the remaining untreated lanes.
- 10. Remove excess sand when the deck is completely dry.
- 11. Remove traffic control devices.

SAFETY: Wearing rubber boots is recommended for this function. Refer to the Comprehensive Safety Program sharepoint portal. Wear all appropriate PPE. Refer to the Risk Based Assessment for additional information.

OTHER CONSIDERATIONS: Runoff from sealing needs to be controlled to prevent contamination of waterways and property damage.

REFERENCES: EPG Bridge Deck Total Surface Treatment - In Deck