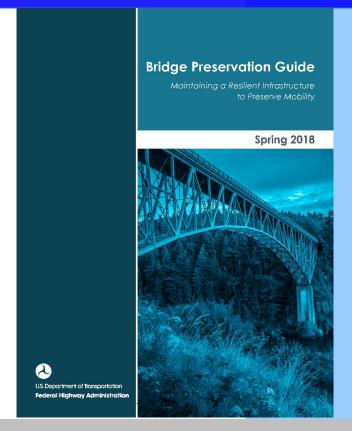
SPANNING CONNECTING SAFELY EFFICIENTLY and STRUCTURES

Using the Products of the BPETG – Pocket Guides, Apps and Training Courses



2019 MWBPP - Bismarck



FHWA Bridge Preservation Expert Task Group (BPETG)

Goals & Strategic Objectives

- 1. Provide information on cost-effective bridge preservation strategies
- 2. Communicate the benefits of including bridge preservation as a component of asset and performance management
- 3. Advise and assist in developing educational materials on bridge preservation
- 4. Foster a collaborative environment that encourages research and innovation

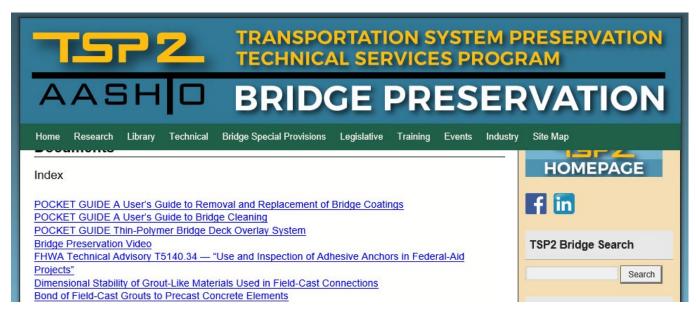


FHWA's Recent Activities Update

- Bridge Preservation Activities
 - What have we accomplished?
 - What's coming?



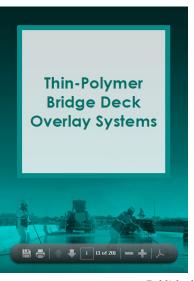
Pocket Guides are also Smart Phone Apps



AASHTO TSP2 Web Page

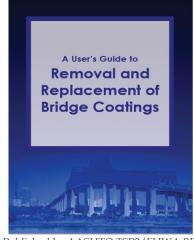
Download Smart Phone App:

- "TPO Pocket Guide" Thin Polymer Bridge Deck Overlay Systems
- "BC Pocket Guide" Bridge Cleaning
- "RBC Pocket Guide" Bridge Coatings





Published by AASHTO TSP2/FHWA BPETG



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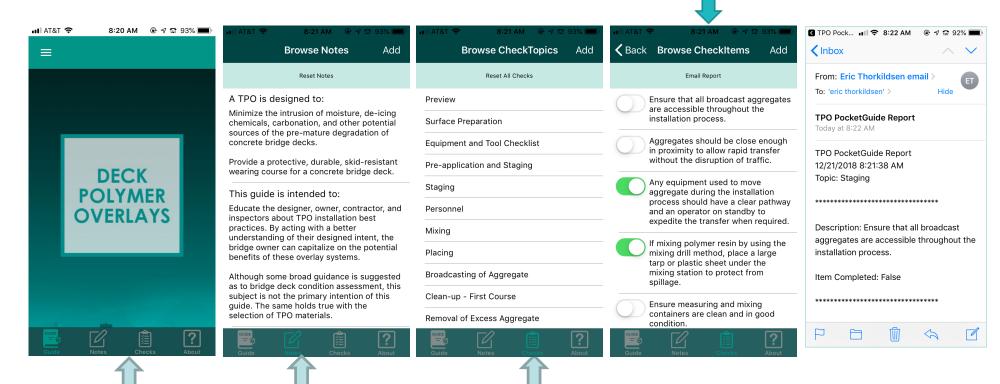
Pocket Guides are also Smart Phone Apps

PDF of Guide on App

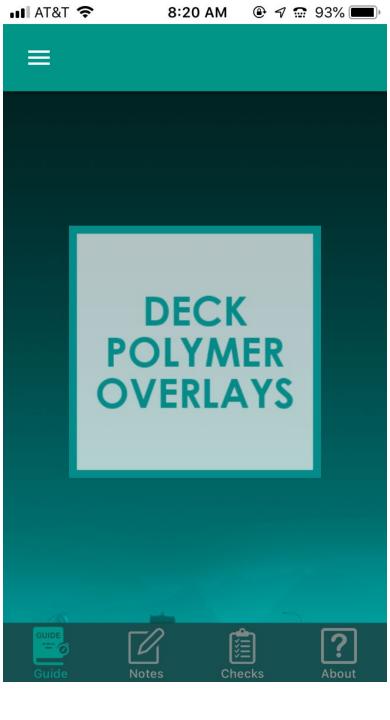
Notes

Checklists

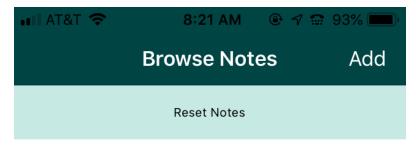
Email Report



TPO APP



TPO APP



A TPO is designed to:

Minimize the intrusion of moisture, de-icing chemicals, carbonation, and other potential sources of the pre-mature degradation of concrete bridge decks.

Provide a protective, durable, skid-resistant wearing course for a concrete bridge deck.

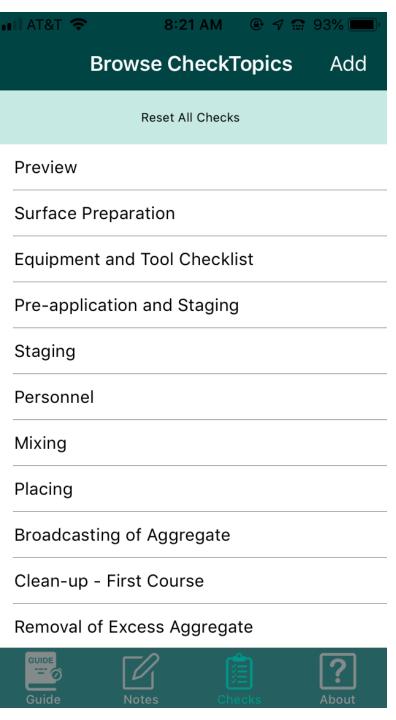
This guide is intended to:

Educate the designer, owner, contractor, and inspectors about TPO installation best practices. By acting with a better understanding of their designed intent, the bridge owner can capitalize on the potential benefits of these overlay systems.

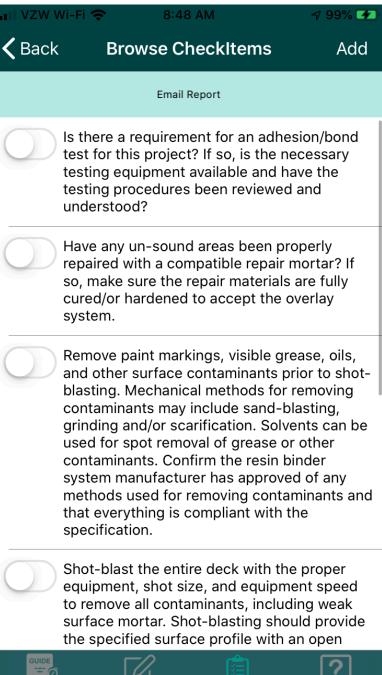
Although some broad guidance is suggested as to bridge deck condition assessment, this subject is not the primary intention of this guide. The same holds true with the selection of TPO materials.



TPO APP



TPO Surface Prep Checklist



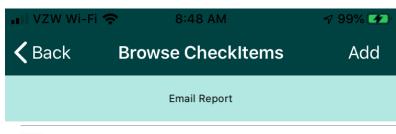


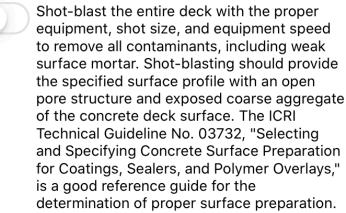


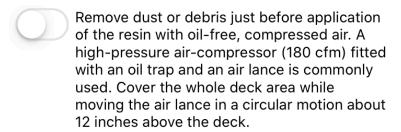


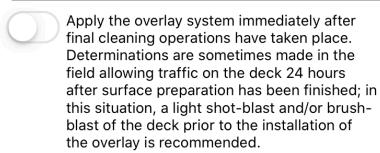


TPO Surface Prep Checklist









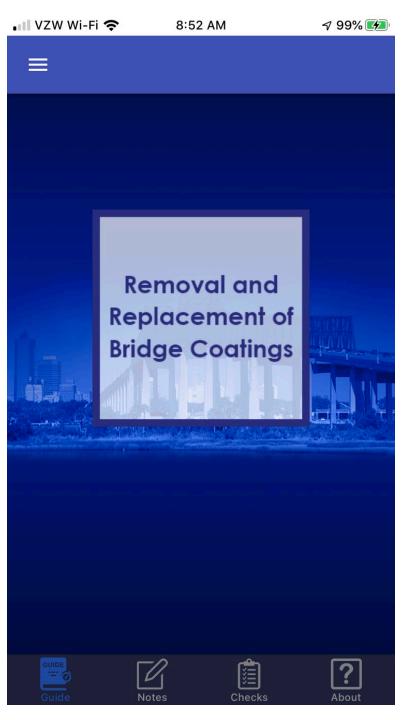








Bridge Coating App



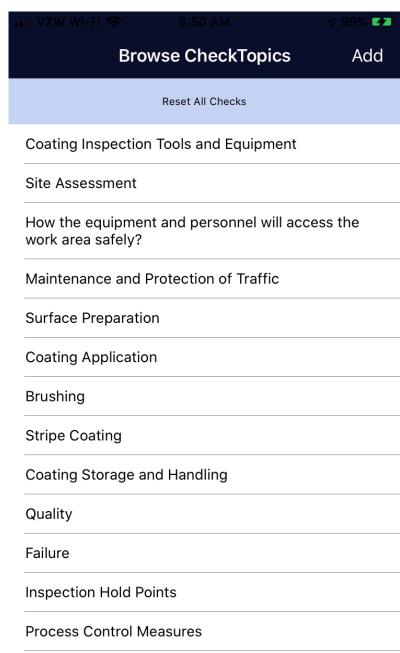


Bridge Coating Pocket Guide

Introduction

This guide has been developed to encourage a better understanding of the process to completely remove and replace bridge coatings for the structural steel elements of bridges in service. The guide describes how to plan and execute a coatings removal and replacement operation with an emphasis on the three primary activities of containment, surface preparation and painting. This guide does not cover shop applied coatings or spot painting operations, however much of the information presented represents best practices for all bridge coating work.

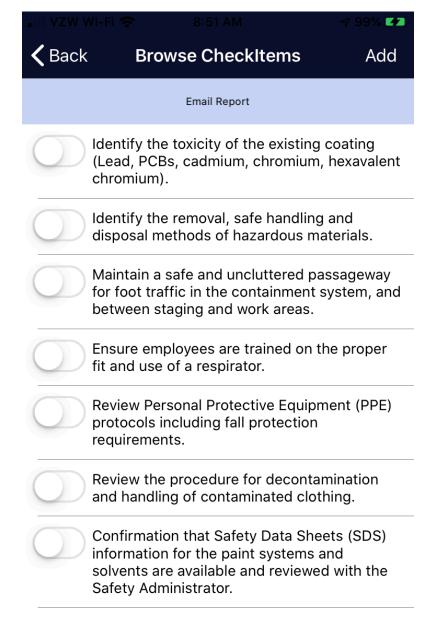




Bridge Coating Checklists

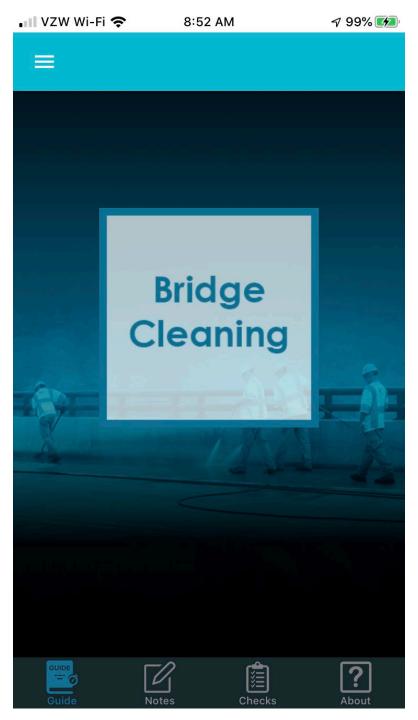


Bridge Coating Safety Checklist





Bridge Cleaning APP



Bridge Cleaning Table of Contents







BC Pocket Guide

Bridge Cleaning

Introduction

Background

Accumulation of Contaminants

Planning and Preparation

Bridge Components to be Cleaned

Equipment

Frequency of Cleaning

Environmental Regulations

Maintenance and Protection of Tr...

Safety

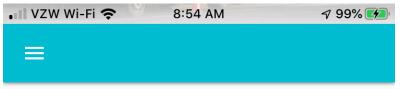








Bridge Cleaning Frequency



Frequency of Cleaning

Bridge owners should set performance targets for activities such as bridge cleaning as a method to preserve the useful service life of their bridges. For example, the performance target could be to sweep a bridge every year and wash the bridge every second year. These targets are generally a baseline and do not account for the unique circumstances of some bridges. The following factors may help bridge owners establish the appropriate cleaning frequency:

- The types of contaminants that might collect on a bridge and its elements.
- The immediate danger that such deposits could create, such as drainage backed up from a blocked scupper.
- The locations on the bridge where specific contaminants would collect.
- The most appropriate method of cleaning and the necessary equipment to do the cleaning.
- Any special access equipment for reaching the

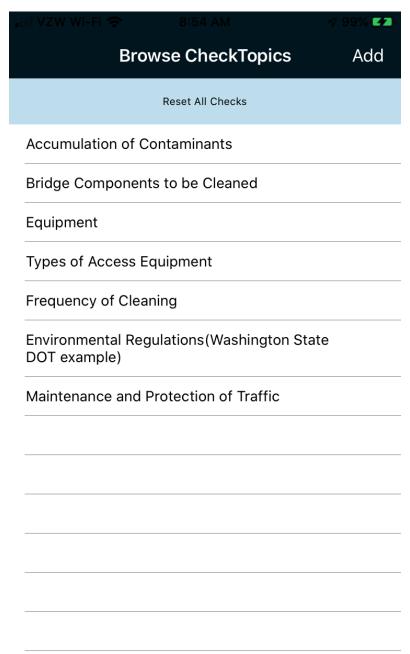








Bridge Cleaning Checklists



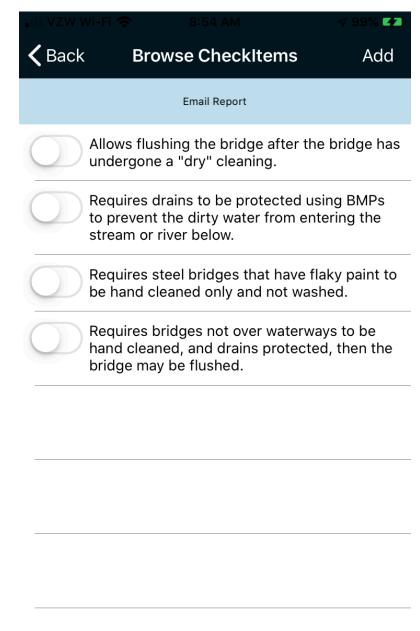








Bridge Cleaning Washington DOT Sample Environmental

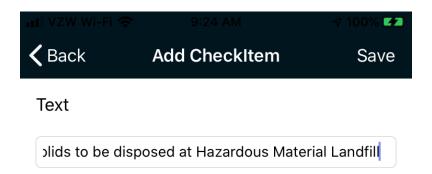








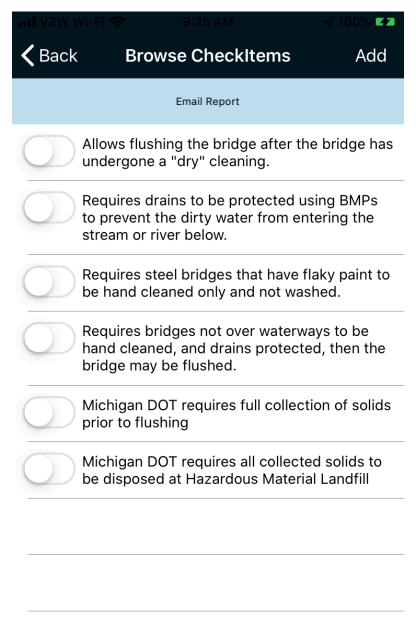




Adding to Checklists



Adding to Checklists











BC PocketGuide Report

10/15/2019 9:29:56 AM

Topic: Environmental Regulations (Washington State DOT example)

Description: Requires bridges not over waterways to be hand cleaned, and drains protected, then the bridge may be flushed.

Checklist Report

Item Completed: False

Description: Michigan DOT requires all collected solids to be disposed at Hazardous Material Landfill

Item Completed: True

This report was generated using the BC PocketGuide App

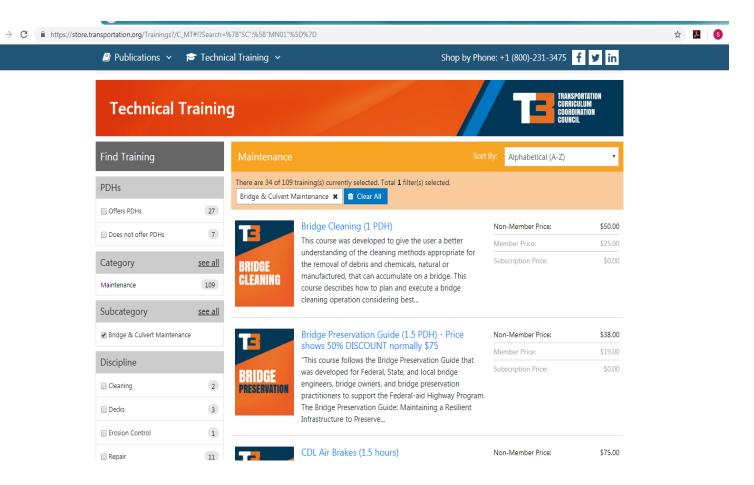
Pocket Guides – Future Topics

- Spot, Zone and Overcoat Painting
- Deck Patching (In production)
- Concrete Substructure Repairs
- Concrete Superstructure Repairs
- Rigid Overlays
- Steel Superstructure Repairs
- Bearings: Clean, Reset and Grease
- Removing Channel Debris and Scour Repairs

AASHTO - TC3

Formed an Alliance with AASHTO Transportation Curriculum Coordination Council (TC3)

- FHWA Bridge Preservation Guide –
 Module 1 Bridge Preservation Overview
 Module 2 How to start a Bridge Preservation Program?
- Bridge Cleaning
- Thin Polymer Overlays
- Bridge Coatings



AASHTO TC3 Web Page



Current Available Classes – AASHTO – TC3

- Bridge Cleaning (TC3MN037-19-T1 (1.0PDH))
- Bridge Preservation Guide (TC3MN036-19-T1 (1.5PDH))
- Removal and Replacement of Bridge Coatings (TC3MN039-19-T1 (1.0PDH))
- Thin-Polymer Bridge Deck Overlay Systems (TC3MN038-19-T1 (1.5PDH))

 TC3 Web Based Training are Free for employees of State DOT's that contribute annually to the TC3 Technical Service Program

SPANNING CONNECTING SAFELY EFFICIENTLY and STRUCTURES

Questions?

