AASHTO COMP TS 5b
Committee On Materials and Pavements
Technical Section for Bridge and Pavement Preservation

AASHTO SCOM Pavement TWG
Tuesday, July 16, 2019
Grand Rapids, MI
AASHTO Committee On Materials and Pavements

The committee shall develop and maintain: technical specifications for materials used in the construction and maintenance of all transportation facilities including highways, bridges, and structures;
AASHTO Committee On Materials and Pavements

COMP- Technical Subcommittee 1a – Soil and Unbound Recycled Materials
COMP- Technical Subcommittee 1b – Geotechnical Exploration, Instrumentation, Stabilization and Field Testing
COMP- Technical Subcommittee 1c – Aggregates
COMP- Technical Subcommittee 2a – Emulsified Asphalts
COMP- Technical Subcommittee 2b – Liquid Asphalt
COMP- Technical Subcommittee 2c – Asphalt-Aggregate Mixtures
COMP- Technical Subcommittee 2d – Proportioning of Asphalt-Aggregate Mixtures
COMP- Technical Subcommittee 3a – Hydraulic Cement and Lime
COMP- Technical Subcommittee 3b – Fresh Concrete
COMP- Technical Subcommittee 3c – Hardened Concrete
COMP- Technical Subcommittee 4a – Concrete Drainage Structures
COMP- Technical Subcommittee 4b – Flexible and Metallic Pipe
COMP- Technical Subcommittee 4c – Markings and Coatings
COMP- Technical Subcommittee 4d – Safety Devices
COMP- Technical Subcommittee 4e – Joint, Bearings, and Geosynthetics
COMP- Technical Subcommittee 4f – Metals
COMP- Technical Subcommittee 5a – Pavement Measurement and Performance Measures
COMP- Technical Subcommittee 5b – Bridge and Pavement Preservation
COMP- Technical Subcommittee 5c – Quality Assurance and Environmental
COMP- Technical Subcommittee 5d – Pavement Design
<table>
<thead>
<tr>
<th>AASHTO Designation No.</th>
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New TS 5b Standards in Process

• Construction guide specification in process:
  • Diamond Grinding for Pavement Preservation
  • Application of Thin Overlay Treatments Using a Binder Resin System and Aggregates for Concrete Surfaces

• Construction guide specifications from NCHRP 14-37: *Guide Specifications for the Construction of Chip Seals, Micro surfacing, and Fog Seals*
  • Emulsified Asphalt Chip Seals
  • Hot Asphalt Chip Seals
  • Micro surfacing
  • Emulsified Asphalt Fog Seals
New TS 5b Standards in Process
(July 2019 Ballot)

• Standard Specification for Materials for Ultrathin Bonded Wearing Course
• Standard Practice for Ultrathin Bonded Wearing Course Design
• Standard Specification for Materials for Full-Depth Reclamation Mixtures with Emulsified Asphalt
• Standard Practice for Emulsified Asphalt Content of Full-Depth Reclamation Mixture Design
### Table of Ballot Items

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<thead>
<tr>
<th>Ballot Item</th>
<th>Standard Number</th>
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<td>M224</td>
<td>Use of Protective Sealers for Portland Cement Concrete</td>
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<td>Reconfirmation ballot: Please reconfirm or propose revisions. An affirmative vote is to approve as-is. A negative vote should be accompanied by proposed revisions to the standard.</td>
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<td>MP 22</td>
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**AASHO**

Please fill out the table below – indicate what status reflects your level of implementation for each standard. I will share the results with the entire group after all responses have been received. We ask that you respond by 2/8/19.

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We also have a Problem

• Pavement preservation is moving fast
• Standards, processes are changing
• We are learning
• Agencies and contractors are innovating
• Processes are being consolidated and accepted
• Who is going to keep this together...?

“People want to use a National Standard.” – Colin Franco
AASHTO Committee on Maintenance
Administrative Resolution
Title: Establish a Collaborative Review Process for Pavement Preservation Treatment
Construction Guidance Specifications

WHEREAS, The AASHTO Highways Committee on Maintenance is seen as a leading technical
resource for extending pavement life through the timely use of pavement preservation, a proven
strategy used throughout the nation to keep highways, roads, and streets in good condition; and

WHEREAS, Many AASHTO member departments look to their maintenance staff to construct
pavement preservation treatments using in-house personnel, or when contracted, perform
construction inspection; and

WHEREAS, The AASHTO TSP-2 has created a Pavement Preservation Emulsion Task Force
and a Concrete Pavement Preservation Task Force consisting of technical experts from
AASHTO member agencies, material suppliers, contractors, consultants, academia, and FHWA
to develop specification documents for Design, Materials, and Construction that will improve the
reliability and performance of pavement preservation treatments; and

WHEREAS, The Pavement Preservation Emulsion Task Force and Concrete Pavement
Preservation Task Force have submitted and received approval on many Design and Material
Specifications from the Committee on Materials and Pavements; and

WHEREAS, AASHTO approved construction guidance specifications for preservation
treatments are needed by agencies and industry alike to ensure uniform application techniques
and construction practices; and

WHEREAS, The Committee on Materials and Pavements has recently formed a Technical
Subcommittee-5b that routinely meets to review Bridge and Pavement Preservation
specifications related to design and materials; and

WHEREAS, Maintenance input is critical in the review and approval process of construction
guidance specifications for pavement preservation treatments; and
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WHEREAS, The Pavement Preservation Emulsion Task Force and Concrete Pavement Preservation Task Force have submitted and received approval on many Design and Material Specifications from the Committee on Materials and Pavements; and

WHEREAS, AASHTO approved construction guidance specifications for preservation treatments are needed by agencies and industry alike to ensure uniform application techniques and construction practices; and

WHEREAS, The Committee on Materials and Pavements has recently formed a Technical Subcommittee-5b that routinely meets to review Bridge and Pavement Preservation specifications related to design and materials; and

WHEREAS, Maintenance input is critical in the review and approval process of construction guidance specifications for pavement preservation treatments; and

WHEREAS, The AASHTO member departments can be best served by a collaborative effort with the Committees on Maintenance (COM), Materials and Pavements (COMP), and Construction (COC) to implement a thorough and timely review process for pavement preservation construction guidance specifications; and

NOW, THEREFORE, BE IT RESOLVED, That the AASHTO Highways Committee on Maintenance recommends to the Highways and Streets Council of the AASHTO Transportation Policy Forum to assign to the Committee on Materials and Pavements, Technical Subcommittee 5b, for a five year period, the responsibility for reviewing, maintaining, and publishing pavement preservation materials standards and pavement preservation treatment construction guidance specifications to the corresponding publications (e.g. AASHTO Materials Book or AASHTO Construction Guide); and that the COMP Technical Subcommittee 5b add 3 to 5 voting representatives from each of the Committees on Maintenance and Construction for the development and review of preservation construction guidance specifications.
WHEREAS, Maintenance input is critical in the review and approval process of construction guidance specifications for pavement preservation treatments; and

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WHEREAS, AASHTO approved construction guidance specifications for preservation treatments are needed by agencies and industry alike to ensure uniform application techniques and construction practices; and

WHEREAS, The Committee on Materials and Pavements has recently formed a Technical Subcommittee-5b that routinely meets to review Bridge and Pavement Preservation specifications related to design and materials; and

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Standard Specification for
Use of Protective Sealers for Portland Cement Concrete

AASHTO Designation: M 224.91 (2014)
Technical Section: 5b, Bridge and Pavement Preservation
Release: Group 1 (April)

SECTION 550
DIAMOND DRUMMING, COREDRILLING, OR BULLDOZING

950.03 Descriptions

Cover this paving for protection physically or temporarily.

950.04 Materials

Removal.

950.05 Construction

A. Grooving. Begin and end treatments at longitudinal joint with a minimum groove 1/2 in. (12.7 mm) from the outside edge of a new section of pavement. Grooves shall be continuous,但在 a common area across the new surface to provide good adhesion. Grooves shall be parallel to the edge of the area to be protected.

Begin sawing approximately 12 in. (30.5 cm) from the outside edge and run a groove across the entire perpendicular section.

For both types of grooving, the grooves shall be made to a depth of 1/2 in. (12.7 mm), or a depth of twice the width of the groove, whichever is less, to a depth of 1/2 in. (12.7 mm) or less of the groove depth.

B. Brooming. This operation shall be performed after the groove has been made and shall consist of a broom or a power broom, which is used to clean the surface of the pavement to provide a surfa...
COMP 5b Task Force 18-1

This group is charged with exploring the layout and formatting of preservation construction guide specifications to develop a standard or style guide to assist people with the drafting of these specifications. This will allow for a systematic flow for the writing, reviewing, publication, and use of these specifications.
COMP 5b Task Force 18-1

• 3 Webinar Style Meetings
• Average 14 members per meeting
• 2 months time
• Representation from
  • COMP
  • COM
  • COC
  • 12 States
  • AASHTO
TF 18-1 Produced

• 1 document

Layout / Formatting Guide for Developing Construction Guide Specifications for Pavement Preservation Treatments

This document is intended to provide specification developers a guideline for writing construction guide specifications for pavement preservation treatments. The common layout, format, and sections will allow for a consistent and systematic flow for the writing, reviewing, publication, and use of these types of specifications.

REFERENCE DOCUMENTS

1. Style Manual for AASHTO Publications
2. The Guide Specification for Highway Construction (To be used as examples)
3. AASHTO Resolution (Attached)

GENERAL GUIDANCE

1. All construction guide specifications should:
   a. be labeled “Construction Guide Specification for (name of the treatment or process),
   b. use ‘Active Voice, Imperative Mood’,
   c. use the five sections listed below. Others may be used if the topic does not fit within one of the five sections.
      i. Description
      ii. Materials
      iii. Construction
      iv. Measurement
      v. Inspection
TF 18-1 Guidance References

1. Style Manual for AASHTO Publications
2. The Guide Specification for Highway Construction
3. AASHTO Resolution
WHEREAS, The AASHTO Highways Committee on Maintenance is a leading technical resource for extending pavements life through the timely use of pavement preservation, a proven strategy used throughout the nation to keep highways, roads, and streets in good condition; and

WHEREAS, Many AASHTO member departments look to their maintenance staff to construct pavement preservation treatments using in-house personnel, or when contracted, perform construction inspections; and

WHEREAS, The AASHTO TSB-3 has created a Pavement Preservation Erosion Task Force and a Concrete Pavement Preservation Task Force consisting of technical experts from AASHTO member agencies, material suppliers, contractors, consultants, academicians, and FHWA to develop specification documents for Design, Materials, and Construction that will improve the reliability and performance of pavement preservation treatments; and

WHEREAS, The Pavement Preservation Erosion Task Force and Concrete Pavement Preservation Task Force have submitted and received approval on many Design and Material Specifications from the Committee on Materials and Pavers; and

WHEREAS, AASHTO approved construction guidance specifications for preservation treatments are needed by agencies and industry alike to ensure uniform application techniques and construction practices; and

WHEREAS, The Committee on Materials and Pavers has recently formed a Technical Subcommittee 5-3 that routinely meets to review Bridge and Pavement Preservation specifications related to design and materials; and

WHEREAS, Maintenance input is critical in the review and approval process of construction guidance specifications for pavement preservation treatments; and

WHEREAS, The AASHTO member departments can be best served by a collaborative effort with the Committee on Maintenance (COM), Materials and Pavements (COMP), and Construction (CORE) to implement a thorough and timely review process for pavement preservation construction guidance specifications; and

NOW, THEREFORE, BE IT RESOLVED, That the AASHTO Highways Committee on Maintenance recommends to the Highways and Streets Council of the AASHTO Transportation Policy Forum to assign to the Committee on Materials and Pavers, Technical Subcommittee 5-3, for a five year period, the responsibility for reviewing, monitoring, and publishing pavement preservation treatment specifications. The Committee will ensure that all construction guidance specifications are approved by both the corresponding subcommittees (e.g., AASHTO Materials (COM) or AASHTO Construction (CORE)) and that the COMP Technical Subcommittee 5-3 and 5-5 voting representatives from each of the Committee on Maintenance and Construction for the development and review of pavement preservation construction guidance specifications.
TF 18-1 General Guidance

2. Active Voice, Imperative Mood
3. Five sections listed below.
   A. Description
   B. Materials
   C. Construction
   D. Measurement
   E. Payment
4. Others may be used if the topic does not fit within one of the five sections.
TF 18-1 Example Document

Guide Specifications for Highway Construction

SECTION XXX
GUIDE FOR WRITING PAVEMENT PRESERVATION CONSTRUCTION
GUIDE SPECIFICATIONS

XXX.01 Description
Description section should be used to identify the specific treatment or process. This section
should clearly, but concisely state the overall construction process. Use as few words as possible
while making sure that the reader understands what this guide documents.

XXX.02 Materials
This section should be used to list the materials that would typically be used with the treatment
or process.

A. Whenever possible the writer should reference AASHTO Materials Specifications for the
specific properties or tests required for the listed materials.

B. If no materials are used for a process the section should contain the words, “Not Used” or
“Reserved.”

XXX.03 Construction
This section should clearly describe the actions required for this treatment. Performance

Guide Specifications for Pavement Construction

SECTION XXX: GUIDE FOR WRITING PAVEMENT PRESERVATION CONSTRUCTION GUIDE SPECIFICATIONS

XXX.01 Description

This section should be used to identify the specific treatment or process. This section should clearly state the overall construction process. Use as few words as possible while making sure that the reader understands what this guide document.

XXX.02 Materials

This section should be used to list the materials that would typically be used with the treatment or process.

A. Wherever possible the writer should reference AASHTO Materials Specifications for the specific properties or tests required for the listed materials.

B. If no materials are used for a process the section should contain the words, “Not Used” or “Reserved.”

XXX.03 Construction

This section should briefly describe the actions required for this treatment. Performance specifications are preferred, avoiding method specification. Subsections should be considered and be organized to provide details in a sequential fashion.

A. Some suggested subsections are:

   a. Equipment.
   b. Essential equipment needed to complete the construction.
   c. Surface quality control prior to treatment application, measurement criteria (more performance – less method)
   d. Application or treatment efficiency
   e. Quality assurance/quality control
   f. Specific quality control tasks required when and how often,
   g. Acceptance criteria,
   h. etc.

XXX.04 Measurement

This section should contain the criteria (proces, precision, and limits) with which the accepted treatment is to be measured. Typical methods of calculation of quantities and methods of acceptance may also be included in this section. Payment adjustments may be included in this section. The criteria shall be clearly stated for final acceptance of the specific type of treatment.

XXX.06 Payment

This section should include items intended to be paid as part of the preservation. Typically, a table or list will have the items and their corresponding unit of measurement. Payment adjustments may be included in this section.

Commentary:

1. Recommended practices or best practices should be located within the section with other information that the recommendation supports. These notes should be labeled as a recommendation and the font should be italicized.

2. Other sections or subsections may be used if the treatment is not adequately specified with the five standard sections and recommended subsections.

3. Tables of values are encouraged in conveying installation tolerances, material properties, or acceptance limits. Tables should be clear, concise, easy to read, and be numbered within their corresponding section. Lengthy tables should be considered as an appendix.

4. Figures, diagrams, pictures are discouraged.

5. Items within a list should be identified with numbers or letters, the use of symbols is discouraged.

6. State specific or region specific practices should be limited whenever possible. When these practices become important to the use of the specification a state specific or region specific supplemental should be written by the agency or regional organization to accompany the AASHTO Construction Guide Specification.
AASHTO Subcommittee on Materials - American Association of State ... 
https://materials.transportation.org/ ▼
Registration is now open for the 2018 COMP Annual Meeting in Cincinnati, OH ... Save the Date for AASHTO's 2018 Committee on Materials and Pavements ...
COMP Schedules · Meetings · Technical Subcommittees · Overview
You've visited this page many times. Last visit: 11/18/18

COMP Schedules – Transportation.org - AASHTO Subcommittee on ...
https://materials.transportation.org/comp-schedules/ ▼
2017 COMP Annual Meeting Phoenix, AZ DRAFT Agenda – PDF - 07-10-2017 ... 2018 COMP Annual Meeting Chairs and Liaisons Schedule – PDF – TBD.
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https://www.transportation.org/ ▼
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Aashto - American Association of State ... AASHTO Meetings - AASHTO Training
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Committee on Materials and Pavements

Announcements:

Registration is now open for the 2018 COMP Annual Meeting in Cincinnati, OH Aug 5-10, 2018!

Save the Date for AASHTO’s 2018 Committee on Materials and Pavements Annual Meeting

When: Sunday August 5th through Friday August 10th, 2018

Committee on Materials & Pavements—COMP
2018 Annual Meeting
August 5-10 | The Westin Cincinnati, Ohio
AASHTO Lithius
Casey Scivetta, Program Manager for Engineering
cscivetta@aashto.org
Chad Clawson, AASHTO Engineering Fellow
cclawson@aashto.org

Committee on Materials and Pavements

Guidance Documents

- Committee on Materials and Pavements Operating Procedures Guide (Rev 08-16-2018) PDF
- AASHTO Material Standards by Edition PDF
- AASHTO Material Standards by Standard Number PDF
- AASHTO Policy Manual Web Page
- AASHTO Style Manual 2012 PDF
- COMP detailed Quick Reference Guide 2005 PDF
- COMP Research Liaisons List
- COMP Research Liaisons: Roles and Responsibilities COMP
- COMP Tech Sections and Corresponding TRB Committees
- Editorial vs Technical Revisions in Standards
- Guide for Materials Standard Template 2001 PDF
- Guidelines for Technical Section Chairmen 2014 PDF
- How to Guide: Turning Materials Research into an AASHTO Specification
- 2019 Material Template Word
- Model Standard 2015 PDF
- Task Section Chair Guide on Preparing Minutes and Ballots 2014 PDF

Task Force 18-01 COC – COMP – COM Collaboration

- COMP SB Construction Guide Spec Layout and Format (PDF)
- COMP SB Construction Guide Spec Layout and Format (word)
WE NEED YOU

TO SUBMIT A STANDARD
How to Submit a Standard

Construction specifications for pavement preservation treatments are to be reviewed by the AASHTO Committee On Materials and Pavements (COMP) Technical Subcommittee 5b – Bridge and Pavement Preservation. These documents will follow the COMP approval process. To submit a guide specification for review and discussion contact the COMP TS 5b Chairperson, Vice Chairperson or the AASHTO liaison for COMP.
How to Submit a Standard

• Email the proposed standard to COMP TS 5b Chair
  • Derek Nener-Plante: Derek.Nener-Plante@maine.gov
  or
  • Vice chair
    • Travis Walbeck: travis.b.walbeck@wv.gov
## Current TS 5b Standards

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Questions

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