

QPL 5: JOINT SEALERS AND FILLERS

SECTION A. COLD POUR (ONE COMPONENT JOINT SEALER)

GENERAL

This evaluation procedure outlines the Department's approval process for silicone materials used for sealing longitudinal and transverse joints and random cracks in portland cement concrete pavement.

SPECIFICATIONS

- TDOT Standard Specification 905.05B – Sealing Longitudinal and Transverse Joints and Random Cracks in PCC Pavement
- NTPEP Review – <http://www.ntpep.org/Pages/JSCS.aspx>

PROCEDURE

A completed Product Evaluation Form, safety data sheets (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests for FTIR analysis.

Review of NTPEP Evaluation Data

Beginning January 1, 2021, the Department will base product approval on certification and a review of NTPEP data.

QPL 5: JOINT SEALERS AND FILLERS

SECTION B: COLD POUR (TWO COMPONENT JOINT SEALERS)

GENERAL

This evaluation procedure outlines the Department's approval process for materials used for sealing joints in portland cement concrete pavement and bridge decks.

SPECIFICATIONS

- TDOT Standard Specification 905.05B – Sealing Longitudinal and Transverse Joints and Random Cracks in PCC Pavement
- NTPEP Review – <http://www.ntpep.org/Pages/JSCS.aspx>

PROCEDURE

A completed Product Evaluation Form, safety data sheets (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests for FTIR analysis.

Review of NTPEP Evaluation Data

Beginning January 1, 2021, the Department will base product approval on certification and a review of NTPEP data.

QPL 5: JOINT SEALERS AND FILLERS

SECTION C: HOT POUR JOINT SEALERS

GENERAL

This evaluation procedure outlines the Department's approval process for materials used for sealing longitudinal and transverse joints between portland cement concrete pavement and asphalt surfaces.

SPECIFICATIONS

- TDOT Standard Specification 905.05A - Sealing Longitudinal Joints Between Portland Cement and Asphaltic Concrete
- ASTM D6690 – Standard Specification for Joint and Crack Sealants, Hot Applied, for Concrete and Asphalt Pavements
- NTPEP Review – <http://www.ntpep.org/Pages/JSCS.aspx>

PROCEDURE

A completed Product Evaluation Form, safety data sheets (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests for FTIR analysis.

Review of NTPEP Evaluation Data

Beginning January 1, 2021, the Department will base product approval on certification and a review of NTPEP data.

QPL 5: JOINT SEALERS AND FILLERS

SECTION D: WATER-ACTIVATED POLYURETHANE FOAM GROUTS

GENERAL

This evaluation procedure outlines the Department's approval process for foam grouts used for sealing voids to stop water infiltration.

SPECIFICATIONS

- None

PROCEDURE

A completed Product Evaluation Form, safety data sheets (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests for FTIR analysis.

Product approval is based on mixing in accordance with manufacturer's recommendations and confirming that the material expands to form a rigid foam.

QPL 5: JOINT SEALERS AND FILLERS

SECTION E: PREFORMED JOINT FILLERS (BITUMINOUS AND NON-BITUMINOUS)

GENERAL

This evaluation procedure outlines the Department's approval process for preformed joint fillers (bituminous and non-bituminous) for use in expansion and construction joints in accordance with the Standard Specifications.

SPECIFICATIONS

- TDOT Standard Specification 701.06 – Expansion Joints
- TDOT Standard Specification 905.01 – Preformed Joint Fillers (Non-Extruding and Resilient Types)
- AASHTO M213 – Standard Specification for Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types)
- AASHTO M153 – Standard Specification for Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction
- NTPEP Review – <http://www.ntpep.org/Pages/JSCS.aspx>

PROCEDURE

A completed Product Evaluation Form, safety data sheets (if applicable), product data information, and a sample of the product being tested must be submitted to the Division of Materials and Tests for FTIR analysis.

Review of NTPEP Evaluation Data

Beginning January 1, 2021, the Department will base product approval on certification and a review of NTPEP data.