

Illinois Department of Transportation
Bureau of Materials

Qualified Product List
BRIDGE DECK THIN POLYMER OVERLAY SYSTEMS (TPO)
July 5, 2024

This list supersedes the [May 3, 2024](#) list.
Guide Bridge Special Provision for Bridge Deck Thin Polymer Overlay (GBSP45)

Note: The manufacturer shall provide certification that the aggregate meets the GBSP45 for Bridge Deck Thin Polymer Overlay Systems. This information shall be provided to the Resident Engineer/Technician at the time of construction.

For information regarding new product submittal, click the "New Submittal" bookmark to the left.

Material Code No. 21626

E-Chem
450 East Copans Road
Pompano Beach, FL 33064
Phone: 954-789-4764
Attn: Ms. Renee Thomas
Producer/Supplier No. 7207-01
www.ATCEPOXY.COM
"EP50-OVERLAY"

Euclid Chemical Company
19320 Redwood Road
Cleveland, OH 44110
Phone: 800-321-7628
216-692-8357
Attn: Ms. Bethany Booth
Producer/Supplier No. 614-01
www.euclidchemical.com
"FLEXOLITH"

Sika Corporation
201 Polito Ave.
Lyndhurst, NJ 07071
201-577-6850
Attn: Mr. Scott DiStefano
www.tecservices.com
"SIKADUR 22 LO-MOD FAST SET (FS)"

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Submittal for Evaluation and Qualification

A. Scope

Bridge Deck Thin Polymer Overlay Systems involve the application of a hard durable aggregate to an existing bridge deck using an epoxy resin binder to rehabilitate and/or maintain the bridge deck condition.

The following guidelines are provided to clarify the submittal requirements and expedite the review process for qualifying the materials used to construct a Bridge Deck Thin Polymer Overlay system (TPO).

B. Submittal Procedure

When submitting a new Bridge Deck Thin Polymer Overlay System epoxy binder for listing on the Qualified Product List (QPL) or resubmitting for Re-Qualification:

The Manufacturer shall complete the requirements necessary to submit their product to the American Association of State Highway and Transportation Officials (AASHTO) Product Evaluation & Audit Solutions for "Evaluation of High Friction and Thin Overlays for Bridges and Pavements". Information on submittal procedures and testing cycles is available at [transportation.org](https://www.transportation.org). Once testing has been completed by AASHTO Product Evaluation & Audit Solutions and the results posted, the Manufacturer shall contact Kelly Senger Kelly.Senger@illinois.gov by email to request an addition to the Qualified Product List. The laboratory and field results obtained from the AASHTO HFTO report will determine if the physical and chemical properties of the TPO's components and system's performance conform to IDOT's Bridge Deck Thin Polymer Overlay Systems Special Provision according to AASHTO MP35 "Standard Specification for Thin Overlay Treatments Using a Binder Resin System and Aggregate for Concrete Surfaces".

The email request shall include, at a minimum, the following information:

1. The specific product brand names,
2. AASTHO Product Evaluation & Audit Solutions product identifications,
3. AASTHO Product Evaluation & Audit Solutions test results,
4. Safety Data Sheets,
5. Technical Data Sheets,
6. Mixing instructions,
7. Shelf life,
8. Application details: rates and procedures,
9. Contact person's name, title, address, email, and phone number,
10. A letter signed by a company official with their title stating the subject product will not be changed without prior written notification to the Bureau of Materials,
11. Acknowledgement by the Company (see last page).

Submit one (1) quart of each component (A&B) of the epoxy binder. Samples will be tested for properties required in the Special Provision. All samples submitted for evaluation shall be obtained from routine production.

The AASTHO Product Evaluation & Audit Solutions lab test data shall not be more than three years

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old, and the field evaluation data shall not be more than nine years old.

Upon completion of the evaluation, the submitter will be notified in writing concerning the results of the evaluation and whether the system will or will not be added to the Bridge Deck Thin Polymer Overlay Systems QPL. The Bureau of Materials, Kelly Senger, shall be notified in writing

of any change from the original system or material submittal. The Department reserves the right to re-evaluate any system or individual material at any time.

Any changes by the Manufacturer in the formulation of a product that was tested by AASTHO Product Evaluation & Audit Solutions shall necessitate the Manufacturer immediately notifying the Bureau of Materials and the newly formulated sample submitted to AASTHO Product Evaluation & Audit Solutions. The Manufacturer shall not supply the new formulation to IDOT until they have completed AASTHO Product Evaluation & Audit Solutions testing, and the product is qualified and placed on the QPL.

The submittal information and samples shall be sent to:

Illinois Department of Transportation Bureau of Materials c/o Analytical Chemistry Lab
Attn: Kelly Senger
126 East Ash Street
Springfield, Illinois 62704-4766
Kelly.Senger@illinois.gov

If the Manufacturer has questions regarding the testing and qualification process, they may contact Kelly Senger at 217-782-1916.

C. Disqualification and removal

Any material may be removed from the QPL at any time. Causes for removal may include but are not limited to:

1. Non-conformance with specifications,
2. Performance requirements not met,
3. Failure to notify the Department of any change in material formulation,
4. Failure to provide proper project documentation as outlined in the Special Provision,
5. Failing test results obtained on project verification samples,
6. Failure to supply current contact information for the material representative per the Bridge Deck Thin Polymer Overlay Systems QPL submittal requirements,

D. Instructions for Acknowledgement by Company

The owner, partner, or corporate officer shall complete [BMPR 101](#) and return a copy with a new product submittal or when company or product information has changed.

E. Requalification

Any system that has been disqualified and/or removed from the Bridge Deck Thin Polymer Overlay Systems QPL will be considered for re-evaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification and/or removal have been resolved.