

Illinois Department of Transportation
Bureau of Materials

Qualified Product List
HIGH FRICTION SURFACE TREATMENT
June 21, 2024

This list supersedes the May 12, 2023, list.
Special Provision for High Friction Surface Treatment
Material Code 21639

“For information regarding new products submittal, click the “New Submittal” bookmark to the left”

Qualified epoxy resin binders shall be used with a qualified calcined bauxite aggregate and the HFST system applied by a qualified applicator.

Epoxy Resin Binder

Cornerstone Construction Material, LLC
1150 SE Hamblen Road Lee’s Summit, MO 64063
816-380-1082
Attn: Mr. Scott Bain
www.ccmaterial.com
“FASTRAC CE330 EPOXY BINDER”
DESC1: CC-C330

E-Chem
450 East Copans Road
Pompano Beach, FL 33064
Phone: 954-789-4764
Attn: Ms. Renee Thomas
www.ATCEPOXY.COM
“E-CHEM HFP 1:1”
DESC1: E - HFP

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)”
DESC1: S-22LM

Terrazzo & Marble Supply Companies 77
South Wheeling Road
Wheeling, IL 60090
773-259-1271
Attn: Mr. Tom Mikrut
www.tmsupply.com
“TERROXY BINDER RESIN”
DESC1: TMS-TBR

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Calcined Bauxite Aggregate

FX Minerals, Inc.

257 Kennedy Park Marina Road
Newell, WV 26050
Attn: Mr. John Koprevich
Phone: 814-360-9040

Great Lakes Minerals, LLC

1200 Port Road
Wurtland, KY 41144
Attn: Ms. Georgia Eusner
Phone: 703-989-4861

Mineral Manufacturing Corp.

10627 Hartslog Valley Road
Huntingdon, PA 16652
Attn: Mr. Tom Reed Jr.
Phone: 814-599-0316

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Qualified Applicators

ACC West Coast, Inc. 2990 Bay Vista Court
Benicia, California 94510
Phone: 707-742-6456
707-310-0225
Attn: Mr. Cliff Barber
P/S Number: 6905-01

DeAngelo Contracting Services (DCS)
100 North Conahan Drive
Hazleton, Pennsylvania 18201
Phone: 570-580-9100 (o)
570-790-6051 (c)
Attn: Mr. Mike Lindsay
P/S Number: 7300-01

Diamond Coring Company, Inc
11800 S. Ewing Avenue
Chicago, Illinois 60617
Phone: 773-978-5000 (o)
773-978-5314 (f)
Attn: Mr. Anthony Cappello
P/S Number: 7374-01

Skidabrader
4924 Kaltenburn Road
Fort Worth, Texas 76119
Phone: 918-839-8747
Attn: Mr. James Trimm
P/S Number: 7375-01

Venture Construction
42 Locke Road
Concord, New Hampshire 03301
Phone: 314-420-8803
Attn: Mr. Eric Toman
P/S Number: 6907-01

WJ Surface Treatments
448 South Spring Avenue
La Grange, Illinois 60525
Phone: 470-920-0064
Attn: Mr. Glenn Thompson
P/S Number: 7376-01

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HFST Material Component Submittal Requirements

A. Scope

High Friction Surface Treatments (HFST) involve the application of calcined bauxite to the pavement using an epoxy resin binder to restore and/or maintain pavement friction at existing or potentially high crash areas. The higher pavement friction helps motorists maintain better control in both dry and wet driving conditions.

The following guidelines are provided to clarify the submittal requirements and expedite the review process for qualifying the materials used to construct HFST and the contractors that place HFST according to the current Special Provision for High Friction Surface Treatment.

B. Submittal Procedure

When submitting a new HFST epoxy binder, or calcined bauxite 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 HFSTO report will determine if the physical and chemical properties of the HFST’s components and system’s performance conform to IDOT’s HFST Special Provision according to AASHTO MP41 “Standard Specification for High Friction Surface Treatment for Asphalt and Concrete Pavements Using Calcined Bauxite”.

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. A signed letter stating the source of origin of the calcined bauxite will not be changed without written notification to the Bureau of Materials,
12. Acknowledgement by the Company (see last page).

Submit one (1) quart of each component (A&B) of the epoxy binder and one (1) 5-gallon bucket of the calcined bauxite aggregate for use in the system. Samples will be tested for properties required in the Special Provision. All samples submitted for evaluation shall be obtained from routine production.

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

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HFST Applicator Submittal Requirements

A. Scope

The following guidelines are provided to clarify the submittal requirements and expedite the review process for a contractor to obtain qualification to apply high friction surface treatment (HFST) according to the Special Provision for High Friction Surface Treatment.

B. Procedure

When applying for applicator qualification, a contractor shall submit, at a minimum, the following:

1. Contractor’s legal operating company name,
2. Contact person’s name, title, address, email address, and phone number,
3. A signed and dated letter stating the equipment is either owned or leased. If the equipment is leased, provide the name and contact information of the equipment owner. The letter shall also include a statement indicating the equipment lease agreement will not be changed without notification to the Department.
4. A signed and dated letter stating the equipment complies with the Special Provision for High Friction Surface Treatment,
5. A color photograph of the application equipment, and
6. Documentation showing HFST or equivalent experience on at least three projects with similar state highway agencies.

C. Disqualification and removal

An applicator 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. Field Installation, Application, and Performance requirements not met,
3. Failure to provide proper project documentation as outlined in the Special Provision,
4. Failure to supply current contact information for the representative per HFST QPL submittal requirements,

D. Requalification

Any applicator that has been disqualified and/or removed from the HFST 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.