

Illinois Department of Transportation  
Bureau of Materials

Qualified Product List  
**SYNTHETIC FIBERS**

**May 12, 2023**

**This list supersedes the January 21, 2022 list.**

Special Provision for Portland Cement Concrete Inlay or Overlay (Check Sheet 28)  
(Effective: November 1, 2008, Revised: January 1, 2017)  
Standard Specifications for Road and Bridge Construction, Section 606 (Adopted: April 1, 2016)  
Bridge Deck Microsilica Concrete Overlay (GBSP) (Revised: April 30, 2021)  
Bridge Deck High-Reactivity Metakaolin (HRM) Concrete Overlay (GBSP) (Revised: April 30, 2021)  
Bridge Deck Fly Ash or Ground Granulated Blast-Furnace Slag Concrete Overlay (GBSP) (Revised: April 30, 2021)

**Material Code 43515**

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

The materials listed on pages 1 and 2 of this qualified product list are for use only with the:  
**Special Provision for Portland Cement Concrete Inlay or Overlay (Check Sheet 28)\***  
**Special Provision for Bridge Deck Microsilica Concrete Overlay (GBSP)\*\***  
**Special Provision for Bridge Deck High-Reactivity Metakaolin (HRM) Concrete Overlay (GBSP)\*\***  
**Special Provision for Bridge Deck Fly Ash or Ground Granulated Blast-Furnace Slag Concrete Overlay (GBSP)\*\***

ABC Polymer Industries/FiberForce  
545 Elm Street/PO Box 580  
Helena, AL 35080  
Phone: 205-620-9889  
Attn: Mr. Eric Campbell  
Producer/Supplier No. 6638-01  
[www.fiberforce.us](http://www.fiberforce.us)  
"FIBERFORCE 650" (1.5" length only)  
Dosage Rate: 4.5 lb / yd<sup>3</sup>

"FIBERFORCE 1000 HP"(2.0" length only)  
Dosage Rate: 4 lb / yd<sup>3</sup>

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Master Builders Solutions Admixtures US  
(as manufactured by FabPro Polymers, Producer No. 6981-01)  
23700 Chagrin Boulevard  
Cleveland, OH 44122  
Phone: 216-839-7500  
Attn: Mr. Mark Piechuta  
Supplier No. 1254-01  
[www.master-builders-solutions.com](http://www.master-builders-solutions.com)  
"MASTERFIBER MAC MATRIX"  
(2.1" length only)  
Dosage Rate: 3 lb / yd<sup>3</sup>

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The Euclid Chemical Company  
19218 Redwood Road  
Cleveland, OH 44110-2799  
Phone: 800-321-7628  
216-692-8305  
Attn: Mr. Brian Lewis  
Producer/Supplier No. 614-01  
[www.euclidchemical.com](http://www.euclidchemical.com)  
"TUF-STRAND SF" (2.0" length only)  
Dosage Rate: 4 lb / yd<sup>3</sup>

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FORTA Corporation  
(as manufactured by Bridon Cordage, Producer No. 6995-01)  
100 Forta Drive  
Grove City, PA 16127  
Phone: 724-458-5221  
800-245-0306  
Attn: Mr. Gerald Welch  
Supplier No. 6996-01  
[www.forta-ferro.com](http://www.forta-ferro.com)  
"FORTA-FERRO ONE"(2.25" length only)  
Dosage Rate: 4 lb / yd<sup>3</sup>

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**List continued to the next page.**

\*Dosage rate as specified herein.

\*\*Dosage rate as specified in special provision.

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**Material Code 43515**

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**Special Provision for Bridge Deck Microsilica Concrete Overlay (GBSP)\*\***

**Special Provision for Bridge Deck High Reactivity Metakaolin (HRM) Concrete Overlay (GBSP)\*\***

**Special Provision for Bridge Deck Fly Ash or Ground Granulated Blast-Furnace Slag Concrete Overlay (GBSP)\*\***

GCP Applied Technologies

(as manufactured by FabPro Polymers, Producer No.

6981-01)

100 Research Drive

Wilmington, MA 01887

Phone: 617-498-4816

Attn: Mr. Robert Hoopes

Supplier No. 767-01

[www.GCPat.com](http://www.GCPat.com)

**"STRUX 90/40"** (1.55" length only)

Dosage Rate: 4 lb / yd<sup>3</sup>

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\*\*Dosage rate as specified in special provision

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**Material Code 43523**

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

The materials listed on pages 3 and 4 of this qualified product list are for use only with the:

**Standard Specifications for Road and Bridge Construction, Section 606. (Adopted January 1, 2022)**

ABC Polymer Industries/FiberForce  
545 Elm Street/PO Box 580  
Helena, AL 35080  
Phone: 205-620-9889  
Attn: Mr. Eric Campbell  
Producer/Supplier No. 6638-01  
[www.fiberforce.us](http://www.fiberforce.us)  
**"FIBERFORCE 150"**

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Master Builders Solutions Admixtures US  
(as manufactured by FabPro Polymers, Producer No. 6981-01)  
23700 Chagrin Boulevard  
Cleveland, OH 44122  
Phone: 216-839-7500  
Attn: Mr. Mark Piechuta  
Supplier No. 1254-01  
[www.master-builders-solutions.com](http://www.master-builders-solutions.com)  
**"MASTERFIBER M35"**  
**"MASTERFIBER M70"**  
**"MASTERFIBER M100"**  
**"MASTERFIBER F70"** (0.75 inch length only)  
**"MASTERFIBER F100"** (0.75 inch length only)

ICF Concrete Additives  
(as manufactured by William Barnet and Son, Producer No. 6909-01)  
150 Mt. Bethel Road, Building 2  
Warren, NJ 07059  
Phone: 201-482-8032  
Attn: Mr. Michael Cook  
Supplier No. 6982-01  
[www.icfconcreteadditives.com](http://www.icfconcreteadditives.com)  
**"ICF-AC 50"** (12 mm( 1/2") and 19mm (3/4") length only)

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ICF Concrete Additives  
(as manufactured by RadiciFibras, Producer No. 6897-01)  
150 Mt. Bethel Road, Building 2  
Warren, NJ 07059  
Phone: 201-482-8032  
Attn: Mr. Michael Cook  
Supplier No. 6982-01  
[www.icfconcreteadditives.com](http://www.icfconcreteadditives.com)  
**"ICF-AC 60"** (12 mm( 1/2") and 19mm (3/4") length only)

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**Standard Specifications for Road and Bridge Construction, Section 606. (Adopted January 1, 2022)**

GCP Applied Technologies (as manufactured  
by Bonar Nv, Producer No. 6980-01)

100 Research Drive

Wilmington, MA 01887

Phone: 617-498-4816

Attn: Mr. Robert Hoopes

Supplier No. 767-01

[www.GCPat.com](http://www.GCPat.com)

**“SINTA M2219”**

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GCP Applied Technologies (as  
manufactured by Propex, Producer No. 6312-02)

100 Research Drive

Wilmington, MA 01887

Phone: 617-498-4816

Attn: Mr. Robert Hoopes

Supplier No. 767-01

[www.GCPat.com](http://www.GCPat.com)

**“SINTA F19”**

**“SINTA M3019”**

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**Synthetic Fibers for use in Concrete Gutter, Curb, Median, and Paved Ditch  
Submittal for Review and Approval**

**A. Scope**

The following guidelines are provided to clarify the submittal requirements and expedite the review process for approving synthetic fibers according to the Department's Standard Specification for Road and Bridge Construction, Section 606 Concrete Gutter, Curb, Median, and Paved Ditch.

**B. Procedure**

When submitting synthetic fibers to the Department:

The Manufacturer shall provide the following to the Department:

- The specific product brand name,
- Name and address of the company extruding the fiber,
- Zip top bag containing a small representative sample of the submitted product,
- Safety Data Sheet,
- Technical Data Sheet,
- Acknowledgement by Company (Form [BMPR 101](#)). If your company does not already have a product included on an IDOT QPL, please submit a signed copy of the company acknowledgement form with your product submittal,
- Contact person's name, title, address, email address, and phone number,
- A letter stating the subject material will not be changed without prior written notification to IDOT, and
- A letter stating the material complies with the following requirements from the Special Provision for Synthetic Fibers in Concrete Gutter, Curb, Median, and Paved Ditch (BDE):

Synthetic fibers shall be Type III according to ASTM C 1116. The synthetic fiber shall have a minimum length of 1/2 in. (13 mm) and a maximum length of 0.75 in. (19 mm).

The submittal information shall be sent to:

Melinda Winkelman  
Illinois Department of Transportation  
Bureau of Materials  
126 East Ash Street  
Springfield, IL 62704-4766

Any submittal provided without the above listed information will not be reviewed for approval. Any changes in the formulation outside the manufacturer's original parameters will necessitate a new submittal.

The manufacturer will be notified when the review is complete. For questions regarding the testing and approval process, contact Melinda Winkelman at 217-782-0117.

**C. Recertification**

Annual recertification of all synthetic fibers is required. During the last quarter of the calendar year, a recertification letter will be sent to the manufacturer. The recertification paperwork is due January the following year. For example, the recertification letter is mailed November 2021 and due by mid-January 2022.

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**Synthetic Fibers for use in Portland Cement Concrete Inlay or Overlay  
Submittal for Review and Approval**

**A. Scope**

The following guidelines are provided to clarify the submittal requirements and expedite the review process for approving synthetic fibers according to the Department's Special Provision for Portland Cement Concrete Inlay or Overlay (Check Sheet #34).

**B. Procedure**

When submitting synthetic fibers to the Department:

First Phase of Submittal Process:

- The manufacturer shall select an Independent Laboratory accredited by the AASHTO Materials Reference Laboratory (AMRL) for Portland Cement Concrete (required methods in ASTM C 1077). The lab shall be equipped to perform the Illinois Modified ASTM C 1609 test method on a submitted synthetic fiber product.
- Prior to the Independent Laboratory testing, the laboratory name, material sources, and mix design shall be submitted to the Department for approval.

Second Phase of Submittal Process:

The Manufacturer shall provide the following to the Department:

- The specific product brand name,
- Independent laboratory test results which show the product meets Department specifications,
  - Residual strength ratio
  - The test report shall contain the length of fibers used for testing.
- Name and address of the company extruding the fiber,
- Zip top bag containing a small representative sample of the submitted product,
- Safety Data Sheet,
- Technical Data Sheet,
- Contact person's name, title, address, email address, and phone number,
- A letter stating the subject material will not be changed without prior written notification to IDOT,
- A letter stating the material complies with the following requirements from the Special Provision for Portland Cement Concrete Inlay or Overlay (BDE):

Synthetic fibers shall be Type III according to ASTM C 1116. The synthetic fiber shall be a monofilament or bundled monofilament with a minimum length of 1.0 in. (25 mm) and a maximum length of 2 1/2 in. (63 mm) and shall have a maximum aspect ratio (length divided by the equivalent diameter of the fiber) of 150. The quantity of synthetic fiber(s) added to the concrete mixture shall be sufficient to have a residual strength ratio ( $R_{150,3}$ ) of 20.0 percent according to Illinois Modified ASTM C 1609. The maximum dosage rate shall not exceed 5.0 lb/cu yd (3.0 kg/cu m), unless the manufacturer can demonstrate through a field demonstration that the concrete mixture will be workable and fiber clumping is not a problem as determined by the Engineer.

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**Submittal for Review and Approval, continued**

- Acknowledgement by Company (Form [BMPR 101](#)). If your company does not already have a product included on an IDOT QPL, please submit a signed copy of the Acknowledgement by Company form with your product submittal.

The submittal information shall be sent to:

Melinda Winkelman  
Illinois Department of Transportation  
Bureau of Materials  
126 East Ash Street  
Springfield, IL 62704-4766

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