

Pre-Approved Product Evaluation Request & Summary

Product Evaluation Coordinator
Colorado Department of Transportation 4670 North Holly Street
Denver, Colorado 80216

APL Reference No.

5104-25

Material Code

709.04.02.00

Material Code description full name

Concrete, Reinforcing Fiber, Plastic

Part 1

Product Name:

ECONO-MONO®

Product category:

Concrete\Fiber\Microfiber

Product Representative / Distributer (name & address):

Gerald J. Welch

FORTA LLC

100 Forta Dr

Grove City, PA 16127

Manufacturer (name & address):

Gerald J. Welch

FORTA LLC

100 Forta Dr

Grove City, PA 16127

Phone: (724) 458-5221 E-mail: gwelch@fortacorp.com

Website address

www.fortacorp.com

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Description of the product: (Include specific quantifiable details from the tech data sheet. Advertising generalities are not appropriate.)

ECONO-MONO® is a synthetic micro fiber, made of 100% virgin homopolymer polypropylene monofilament. This fiber functions as a plastic shrinkage reinforcement intended to reduce the formation of shrinkage cracks prior to initial set of concrete and to reduce settlement shrinkage. ECONO-MONO is non-corrosive, non-magnetic, chemically inert, and 100% acid and alkali proof.

ECONO-MONO is used in any concrete application where the objective is to control plastic shrinkage cracking while improving basic durability properties. Requires no mix design or placement changes.

Material: Virgin Homopolymer Polypropylene, Color: White, Form: Monofilament, Acid/Alkali Resistance: Excellent, Specific Gravity: 0.91, Absorption: Nil, Tensile Strength: 83-96 ksi (570-660 MPa), Compliance: ASTM C1116 & D7508.

Restrictions, (installation and/or use):

This product is typically used at a minimum dosage of 1.0 lb/cu yd (0.6 kg/cu m) of concrete.

Use of the product, and Benefit to CDOT (be specific to CDOT highway activities only):

Concrete reinforcement for plastic shrinkage crack control in pavements, pavement overlays, slabs on ground, bridge deck topping, shotcrete, parapet walls, barriers, curb, gutter and sidewalks, and the repair of those structures

Specifications: (listing those applicable is required.)

<input checked="" type="checkbox"/>	CDOT	Standard Specification, Subsection 601.03
<input type="checkbox"/>	AASHTO	
<input checked="" type="checkbox"/>	ASTM	ASTM C1116 & D7508 Compliance to Certification
<input type="checkbox"/>	Other	
<input checked="" type="checkbox"/>	Other	ECONO-MONO Fact Data Sheet

☒ Certificate of Compliance

☐ Certificate of Verification

Product Testing: (National/independent laboratories or universities with Report Date.) A certified Test Report (CTR) is provided to validate all claims.

<input type="checkbox"/>	AASHTO Product Evaluation & Audit Solutions (NTPEP)	
<input type="checkbox"/>	ASTM	
<input checked="" type="checkbox"/>	Other	ICC-ES Evaluation Report (ESR-2720)
<input checked="" type="checkbox"/>	Other	UL-Certification CBXQ R18552 Fiber Reinforcement and Concrete Additives.pdf
<input type="checkbox"/>	Other	

State DOT Approvals: _____ Expiration Date 4 Year Cycle 05/15/2029

Sample Submitted ☐ Yes ☒ No ☐ N/A Safety Data Sheets (SDS): ☒ Yes ☐ No ☐ N/A

Alternate Product Category None

CDOT Restrictions as per CDOT Approving Authority

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Evaluators Signature:

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