



MICRO SYNTHETIC

## Description

FORTA® MIGHTY-MONO® is an easy to finish micro synthetic fiber, made of 100% virgin homopolymer polypropylene monofilament. This fiber provides reduced plastic and settlement shrinkage, and increased impact resistance. MIGHTY-MONO is non-corrosive, non-magnetic, chemically inert, and 100% acid and alkali proof.

## Reinforcement Objective

To inhibit concrete cracking caused by plastic and settlement shrinkage that occurs prior to the initial set.

## Physical Properties

<b>Specific Gravity</b>	0.91
<b>Density</b>	1,534 lb/cu yd (910 kg/cu m)
<b>Tensile Strength</b>	83-96 ksi (570-660 MPa)
<b>Length</b>	1.5 in (38 mm), 0.75 in (19 mm)
<b>Melting Point</b>	319°F (160°C)
<b>Material</b>	Virgin Homopolymer Polypropylene
<b>Form</b>	Fibrillated
<b>Color</b>	White
<b>Acid / Alkali Resistance</b>	Excellent
<b>Absorption</b>	Nil

## Compliance & Certification

- ASTM C1116 / C1116M-10a, Standard Specification for Fiber-Reinforced Concrete
- ASTM D7508 / D7508M-10(2015), Standard Specification for Polyolefin Chopped Strands for Use in Concrete
- Certified UL / ULC: CBXQ.R18552
- DUNS: 094214129
- CAGE Code: OFAN8
- NAICS: 325220

## Applications

MIGHTY-MONO is primarily used in concrete applications such as slabs-on-ground, overlays/toppings, curbs, driveways, sidewalks, basement floors, garage floors, and colored concrete – anywhere that the objective is to control plastic shrinkage cracking while improving basic durability properties. Requires no mix design or placement changes!

## Performance Benefits

- Increase surface durability
- Reduce plastic and settlement shrinkage
- Reduce settlement and bleeding
- Provide 3-dimensional reinforcement against micro-cracking

## Recommended Dosage

This product is typically used at a minimum dosage rate of 1.0 lb/cu yd (0.6 kg/cu m) of concrete. Contact FORTA Corporation for design assistance and dosage recommendations.

## Packaging

	Domestic	International
Bags	1.0 lb	0.6 kg
Cartons	40 bags	30 bags
Pallets	16 cartons/640 bags	12 cartons/360 bags

## Recommendations

**Addition:** MIGHTY-MONO is packaged in mixer-ready bags that can be added directly into the concrete mixing system. The fiber should be added during or after batching of the other ingredients – never as the first mix ingredient.

**Mixing:** When possible, add fibers to a rotating drum. Once all fibers have been added to the batch, mix four to five minutes at standard mixing speed. Road-revolution speed should not be counted as part of the required fiber mixing time.

**Slump:** Fibers may reduce the visual slump measured by the slump-cone test, but has a lesser effect on flow-ability and workability. To regain any loss of workability or slump, the use of appropriate admixtures is recommended – avoid the addition of water.

## Additional Information

Additional information such as the Safety Data Sheet, Certifications, videos and other literature can be found on the [forta-ferro.com](http://forta-ferro.com) website. The website also features Project Profiles that show the many applications and benefits of FORTA products first-hand.

## Warranty

FORTA® products are warranted to be free of defects in material and meet all quality control standards set by the manufacturer. FORTA Corporation specifically disclaims all other warranties, express or implied. The exclusive remedy for defective product shall be to replace the product or refund the purchase price. No agent or employee of this company is authorized to vary the terms of this warranty notice. FORTA Corporation has no control over the design, production, placement, or testing of the concrete products in which FORTA® products are incorporated, and therefore FORTA Corporation disclaims liability for the end product.

FORTA reserves the right to change the features and specifications of its products without prior notice.

*MIGHTY-MONO® can be purchased from FORTA Corporation or an authorized FORTA® products distributor, dealer or representative.*

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