

## MIGHTY-MONO® FACT DATA



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, increased impact resistance and long-term durability. 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**

Specific Gravity	0.91	
Tensile Strength	83-96 ksi (570-660 MPa)	
Length	0.75 in (19 mm), 0.5 in (13 mm), 0.25 in (6 mm)	
Melting Point	319°F (160°C)	
Material	Virgin Homopolymer Polypropylene	
Form	Monofilament	
Color	White	
Acid / Alkali Resistance	Excellent	
Absorption	Nil	

## **Compliance & Certification**

- ASTM C1116 / C1116M-10a, Standard Specification for Fiber-Reinforced Concrete, "Type III Synthetic Fiber-Reinforced Concrete"
- ASTM D7508 / D7508M-10(2015), Standard Specification for Polyolefin Chopped Strands for Use in Concrete
- Evaluated by ICC-ES, see Evaluation Report No. ESR-2720
- UL Listed: CBXQ.R18552 and CBXQ7.R18552

 DUNS: 094214129 CAGE Code: 0AFN8

• NAICS: 325220

CE 1020-CPR-010042512 EN 14889-2:2006





### **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 microcracking

#### 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 for design assistance and dosage recommendations.

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### **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 website. The website also features Project Profiles that show the many applications and benefits of FORTA products first-hand.

#### **Limited Warranty**

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The exclusive remedy for defective product is outlined in FORTA's Standard Terms and Conditions of Sale, available upon request. CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.

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