



MICRO SYNTHETIC

Description

FORTA[®] GREEN-NET[®] is an easy to finish micro synthetic fiber, made of 100% recycled polypropylene in a fibrillated form. This heavy-duty fiber offers long-term durability, and temperature/shrinkage control by incorporating a fibrillated pattern and long length option. GREEN-NET is non-corrosive, non-magnetic, 100% acid and alkali proof, and 100% recycled.

Reinforcement Objective

To inhibit plastic and settlement shrinkage cracking prior to the initial set, and to reduce hardened concrete shrinkage cracking, improve impact strength, and enhance concrete toughness as an alternate temperature/shrinkage reinforcement.

Physical Properties

Specific Gravity	0.91
Tensile Strength	83-96 ksi (570-660 MPa)
Length	2.25 in (54 mm), 1.5 in (38 mm), 0.75 in (19 mm)
Melting Point	319°F (160°C)
Material	100% Recycled Polypropylene
Form	Fibrillated
Color	Various
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
- DUNS: 094214129
- CAGE Code: 0AFN8
- NAICS: 325220

Applications

GREEN-NET is used in quality concrete applications such as slabs-on-ground, overlays/toppings, curbs, sloped paving, roads/highways, driveways, sidewalks, and shotcrete – anywhere that peak fiber performance is desired and where the objective is to control temperature/shrinkage cracking while improving basic durability properties and to increase the recycled material content of concrete. Requires no mix design or placement changes!

Performance Benefits

- Enhance durability
- Reduce plastic and hardened concrete shrinkage
- Reduce settlement cracking
- Provides nominal impact strength
- Increase fatigue resistance
- Increase concrete toughness
- Provide 3-dimensional reinforcement against micro-cracking

Recommended Dosage

This product is typically used at a minimum dosage rate of 1.5 lb/cu yd (0.9 kg/cu m) of concrete. Contact FORTA for design assistance and dosage recommendations.

Packaging

	Domestic	International
Bags	1.5 lb	0.9 kg
Cartons	20 bags	20 bags
Pallets	16 cartons/320 bags	12 cartons/240 bags

Recommendations

Addition: GREEN-NET 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.

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

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