

REGEN Fiber's concrete reinforcement fibers deliver strength and performance at a competitive price.

Laboratory and field sample testing show increased flexural strength and toughness.

Fibers are created by reprocessing fiber-reinforced polymer materials from retired wind turbine blades.

Designed to mix with all types of concrete formulations, the fibers disperses and finishes with excellent workability.



PHYSICAL PROPERTIES

Material	Composite fiber
Form	Strands
Color	Off-white/light gray
Filament Length	30 mm
Specific Gravity	1.8 g/cm (3)
Tensile Strength	100 KSI (650 MPA)
Melting Point	1100 C
Acid/Alkali Resistance	Excellent
Absorption	N/A

Concrete Fiber



PERFORMANCE BENEFITS over unreinforced concrete

Increases flexural strength – ASTM C-1609*

- Increase average deflection

Boosts flexural toughness – ASTM C-1550*

- Increase energy at 28-days

Improves durability

- Enhance shrinkage crack control
- Increase impact resistance
- Raise ultimate load-bearing capability

*Based on 10 lb./cu yd dose rate.

APPLICATIONS

Concrete applications including commercial and residential slabs, garage floors, concrete decks, overlays, pavement, bridge decks, shotcrete, and precast products.

THE SUSTAINABLE SOLUTION compared to other market leading fibers

Reduce the carbon footprint of your materials utilizing REGEN Fiber products.

REGEN Fiber products require less energy and resources compared to that of virgin materials.

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RELEVANT PERFORMED TESTING

ASTM C1609/C1609M-12 Standard Test Method for Flexural Performance of Fiber-Reinforced Concrete (Using Beam With Third-Point Loading)

- Measures the peak strength and residual strength after first crack

ASTM C1550 Standard Test Method for Flexural Toughness of Fiber Reinforced Concrete (Using Centrally Loaded Round Panel)

- Measures the energy absorption during flexural failure

For test results, please contact REGEN Fiber.

MIXING GUIDANCE

Add fibers into wet concrete during the last stage of mixing, or directly into a ready-mix truck. Fibers can be added into dry premix or dry-mix applications.

STORAGE & SHELF LIFE

Minimum of 5 years when stored in dry conditions. Keep product in its original packaging



WARRANTY

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ABOUT REGEN FIBER



REGEN Fiber delivers a circular solution by reprocessing a range of composite materials into reinforcement fibers and additives for asphalt, composite, and concrete applications.

As the world's first company to sustainably **#FreeTheFiber** from wind turbine blades without using a thermal or chemical process, we're helping solve the wind industry's growing challenge of finding environmentally friendly ways for disposing of wind turbine components.

DOSAGE BY WEIGHT**

IMPERIAL (lb/cu yard)	METRIC (kg/cu meter)
5.0 - 10.0*	3.0 - 5.9*

**For standard concrete mix applications. Please contact REGEN Fiber for further dosage recommendations. Due to increased specific gravity with REGEN-R8 Concrete Fibers, dosage rates are typically double that of polypropylene fibers without any loss of workability.
**For shotcrete applications, the typical dosage will be between 15 to 30 lb/cu yd.*

