

Product description

An epoxy fiberglass composite reinforcement fiber made from recycled wind turbine blades. These fibers enhance the strength and durability of concrete, particularly in ready-mix and precast applications.



Physical properties

Material	Composite fiber
Form	Strands
Color	Off-white, light gray
Tensile strength	100 KSI (650 MPA)
Melting point	1,100 C
Alkali resistant	Yes
Absorption	N/A

Dosage by weight**

IMPERIAL (lb/cu yard)	METRIC (kg/cu meter)
5.0 - 15.0*	3.0 – 8.8 *

**For standard concrete mix applications. Due to increased specific gravity, dosage rates are typically double that of polypropylene fibers without any loss of workability. **For shotcrete applications, typical dosage is between 15 to 30 pounds per cubic yard.*

Benefits and characteristics Compared to unreinforced concrete

- Increases flexural strength – meets ASTM C-1609 standards.**
- Disperses well throughout mix, finishes smoothly.
- Alkali resistant.
- Reduces drying shrinkage – meets ASTM C-157 standard.*
- Boosts flexural toughness – meets ASTM C-1550 standards.**
- Improves durability.
- Raises ultimate load-bearing capability.
- Fiber sizes range, from microfibers less than 9.525mm to medium fibers up to 50.8mm.

**Based on 10 pounds and 5 pounds per cubic yard dose rate.*

***Based on 15 pounds per cubic yard dose rate.*

Applications

Ready-mix, flowable fill, filler, 3D printable concrete, grout mix, shotcrete, precast, slab on grade.



Sustainability

Made of 100% recycled material from wind turbine blades, REGEN Fiber concrete fibers offer a sustainable option compared to traditional fibers and other concrete reinforcements made from virgin materials. Using REGEN Fiber concrete fibers helps builders meet the growing demand for eco-friendly materials and a lower carbon footprint.

Our fibers extend the lifespan of concrete, reducing the need for repairs and replacement. This not only promotes sustainability but also long-term savings.

Mixing guidance

Add fibers into wet concrete during the last stage of mixing, or directly into dry premix or dry-mix applications.



Storage and shelf life

Fibers have a minimum shelf life of five years stored in dry conditions. Keep the product in its original packaging.



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