

Fiber Roving

PRODUCT INFORMATION

Fiber Roving™ is an Alkali-Resistant glass fiber roving (spool) designed to be chopped on-site and on-demand by customers. The cut fibers help prevent cracks and reinforce mechanical properties of ready-mix concrete, pre-cast concrete, and GRC premix.

Fiber Roving™ can be used at ready-mix plants, pre-cast plants, mobile concrete plants, and all concrete batching facilities.

Chopping a roving instead of purchasing pre-chopped fiber increases productivity, improves quality assurance and enhances safety.

Applications

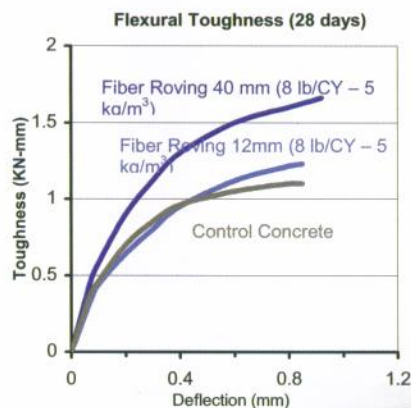
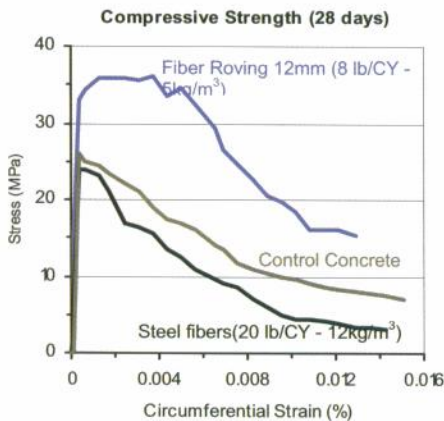
- ▶ Architectural, civil engineering and infrastructure GRC elements
- ▶ Pre-cast elements of any type
- ▶ Residential and commercial slabs, walkways, driveways...

Properties

- ▶ Excellent compatibility with cement matrix
- ▶ Excellent workability
- ▶ Excellent finish
- ▶ Virtually invisible at surface
- ▶ Compatible with most admixtures
- ▶ Safe
- ▶ Long term durability
- ▶ Easy unwinding
- ▶ Good integrity of strands (fibers) during mixing
- ▶ Fills pores to resist moisture penetration

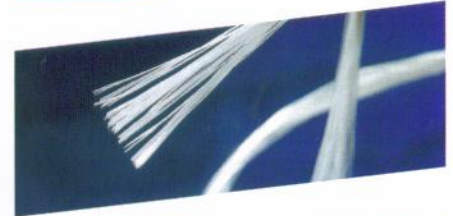
Benefits

- ▶ Reduces Plastic Shrinkage cracks
- ▶ Increases compressive strength
- ▶ Increases flexural strength
- ▶ Increases tensile strength
- ▶ Increases abrasion resistance
- ▶ Extends life of concrete



Compliance

According to internal tests Fiber Roving™ meets the conditions to be rated by ICC-ES (ex ICBO) as an "admixture to reduce plastic shrinkage cracking in reinforced concrete and to reduce plastic and temperature cracking in structural plain concrete slabs on grade". See ICC-ES Report ESR-1226 for Fiber Roving™ RICH Fiber™ HP and HD. Tested by AZ State University and University of TX.



- ▶ A great alternative to Pre-Chopped fibers
- ▶ Higher Productivity
- ▶ Better Quality Control
- ▶ Improved Safety


RICH Fiber™
 & Systems



Material Design	Alkali Resistant Glass Monofilament Fiber
Elementary Filament Diameter	14 microns
Specific Gravity	2.7
Color	Clear / white
Moisture Content	0.35% (ISO 3344)
Sizing	< 2% For easy chopping, dispersion & bond with cement matrix
Loss on ignition	1.8% (ISO 1887)
Melt Point	1185 °C • 2165 °F
Electrical Conductivity	Very low
Resistance to chemical aggressions	Very high – Non-corrosive
Modulus of elasticity	70 GPa • 10,000 KSI
Tenacity	1700 Mpa • 250 KSI

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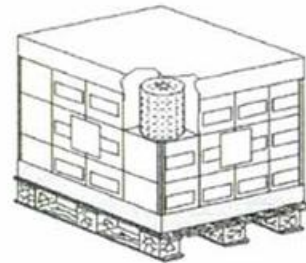
	Roving Linear Weight	Roving Height	Roving Diameter	Roving Net Weight
Fiber Roving™	3000 tex (36 strands of 83 tex)	26 cm 10 in	28 cm 11 in	19 Kg 42 lb

Storage

Fiber Roving™ should be stored in a dry place in its original packaging, the best conditions being at a temperature between 60°F (15°C) and 35° C (35° C) and at a relative humidity between 35 and 65%. If the product is stored at low temperature (below 15°C) it is recommended to keep the product in the work place for 24 hours before use to avoid condensation.

Packaging

Fiber Roving™ is designed to be unwound internally. It is protected by a shrink-wrap film which should not be removed while being used. Each roving is identified by an individual label and packed in a carton box. Fiber Roving™ is white/ clear colored.



The complete pallet is protected by a shrink-wrap film and identified with two labels.

	Levels per pallet	Rovings per pallet	Pallet Length	Pallet Width	Pallet Height	Pallet Net Weight
Fiber Roving™	3	48	114 cm	114 cm	93 cm	912 Kg
Roving			45 in	45 in	37 in	2030 lb

Pallet weight (bobbin weight) may slightly vary due to manufacturing process.

Advices

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| <p>DO</p> <ul style="list-style-type: none"> ▶ Add fibers at any time prior to pouring at the plant or on site ▶ Mix for 3 min on high speed after fiber is added | <p>DO NOT</p> <ul style="list-style-type: none"> ▶ Do not over - water concrete (fibers do not affect the hydration process) ▶ Do not increase joint spacing ▶ Do not substitute any reinforcement required by building codes. |
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Quality

- ▶ Fiber Roving™ is manufactured under a Quality Management System approved ISO 9001
- ▶ Fiber Roving™ manufacturing plant is approved ISO 14001 for environmental care

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