

REGEN-R8 is a reinforcement fiber that increases the strength and longevity of asphalt pavement.

Laboratory and field sample testing show increased rutting resistance and cracking reduction.

Fibers are created by reprocessing materials from composite manufacturing.

REGEN Fiber products provide cost savings due to increased performance when compared to unreinforced asphalt mixes.



PHYSICAL PROPERTIES

Material	Modified glass fiber
Form	Monofilament bundle
Color	Off-white
Filament Length	6 - 25 mm
Bulk Density	2.55 – 2.58 g/cm(3)
Tensile Strength	2100 MPa
Tensile Modulus	69 – 76 GPa
Softening Point	1555 F

Properties based on typical recycled feedstock.

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.

PERFORMANCE BENEFITS over unreinforced asphalt

Resists rutting – AASHTO T 324

- Reduce max impression depth by 35%
- Increase stripping inflection point by 20%

Boosts asphalt strength – AASHTO-D 7313

- Increase cracking resistance by 30%

Reduces lifecycle costs

- Extend pavement life by 30% - 40%
- Potential to reduce pavement thickness

APPLICATIONS

Asphalt applications from high volume to low volume traffic, including streets, highways, interstates, parking lots, etc.



Standard asphalt mix
(Low volume traffic)

Asphalt mixed with
REGEN-R8

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RELEVANT PERFORMED TESTING

Hamburg Wheel Tracker - AASHTO T 324

- Measures max impression rut depth and stripping inflection point (SIP)

Disk Shaped Tension Energy or Disk Compact Tension (DCT) of the asphalt mix – AASHTO-D 7313

- DCT measurement Fractures Energy of Asphalt Mixtures – tension to pull mix apart.

For test results, contact REGEN Fiber

MIXING GUIDANCE

Introduce fiber during asphalt production via premeasured dose bags or plant fiber delivery system, similar to recycled asphalt shingles (RAS) incorporation. Fiber is available in dose bags and bulk per customer requirements.

STORAGE & SHELF LIFE

Minimum of 3 years when stored in dry conditions. Keep product in its original packaging



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/ton)	METRIC (kg/ton)
3.6	1.6

**Example of a standard commercial parking lot asphalt mix applications (Based on 3% binder replacement with 6% binder in a mix ton) Please contact us for further dosage recommendations.*



WARRANTY

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