



03 30 00	Cast-in-Place Concrete
03 37 13	Shotcrete
03 40 00	Precast Concrete
03 70 00	Mass Concrete

AtlantisFiber™

EnviroGuard–100

Description

EnviroGuard–100 is a proprietary and treated mix of Polyolefin fiber extracted from repurposed tire fiber strands.

EnviroGuard–100 meets the requirements of ASTM D 7508/ D 7508M, ASTM C 1116/C 1116M, Section 4.1.3, Type III, and Note 2.

EnviroGuard–100 is specifically engineered to improve concrete durability by reducing cracking from shrinkage. EnviroGuard–100 disperses well in the concrete matrix. The proprietary fiber is designed to impart durability and long life to concrete in adverse environments. With easy finishing, EnviroGuard–100 is perfect for all commercial & residential applications.

Applications

Recommended for use in:

- Parking lots
- Roadways
- Slabs
- Shotcrete
- Precast products
- Dams and Canals
- Tunnels and bridges
- Thin and thick repair applications

Features

- Excellent distribution & finishability
- Excellent reduction in plastic shrinkage cracking
- Engineered for low environmental impact

Benefits

- Reduces plastic settlement, shrinkage and cracking
- Extends service life with reduced maintenance
- EnviroGuard–100 is Carbon Neutral

Performance Characteristics

Physical Properties

Specific Gravity	0.90
Melting Point	500 °F (260°C)
Ignition Point	896 °F (480°C)
Absorption	Nil
Alkali Resistance	Excellent
Tensile Strength	37 ksi (260MPa)
Modulus of Elasticity	450 ksi (3.1 GPa)
Length	0.18-0.2 in. (3-5mm)
Equivalent Diameter	0.0008 in. (20 microns)

Guidelines for Use

Dosage: The dosage of EnviroGuard–100 is 2.0 lb./yd³ (0.9 kg/m³). Depending on local conditions, specifications and practices.

Mixing: No modifications to the mixture proportions are required when the product is used at the dosage of 2.0 lb./yd³ (0.9 kg/m³) and standard mixing and finishing practices are followed. EnviroGuard–100 can be introduced into the mixer at any time except when the cement is being introduced. Mixing time will vary based on when the fibers are introduced to the mixer. The normal range is 3-5 minutes of mixing with the higher number preferred when the fibers are added after all of the standard ingredients have been introduced and mixed.

Engineering Specifications

EnviroGuard–100 is engineered specifically to perform as a plastic shrinkage reinforcement for concrete. For optimum performance, a dosage of 2.0 lb./yd³ (0.9 kg/m³) is recommended.

EnviroGuard–100 is compatible with admixtures and additives that meet the appropriate ASTM specifications.

EnviroGuard–100 meets the requirements of ASTM D 7508/D 7508M, ASTM C 1116/C 1116M, Section 4.1.3 Type III, and Note 2.

Product Notes

EnviroGuard–100 is not a replacement for structural steel reinforcement and therefore, should not be used to replace any of the load-carrying steel reinforcement in a concrete element.

Packaging

EnviroGuard–100 is packaged in pre-weighed 2.0 lb. (0.9 kg), pulpable bags to ensure optimum dosing and homogeneous distribution of the product. Simply add the entire unopened bag into the mixer.

Related Documents

Safety Data Sheets: EnviroGuard–100

Additional Information

For Additional information on the AtlantisFiber™ product line, please contact your local sales representative or email sales@atlantisfiber.com. *The Admixture business of Atlantis Holdings Ltd, known as AtlantisFiber™, has shown significant success in mild to extreme climates by forming a chemical bond with the structure of the concrete, allowing load-bearing sections to possess enhanced structural integrity and reduced cracking overall by 90% We are connected globally with experts from many fields to provide sustainable solutions for the construction industry.*

Limited Warranty Notice

ATLANTISFIBER™ warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. ATLANTISFIBER™ MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of AtlantisFiber™. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. ATLANTISFIBER™ WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

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