



AR GLASS FIBER ROVING BOBBIN

Description

FORTA® MOBILE-MESH™ is an alkali resistant glass fiber developed for reinforcement of cement based applications to ensure increased long-term performance and durability. The density of MOBILE-MESH, which matches that of concrete, allows for exceptional dispersion by eliminating floating, sinking, clumping, and air entrapment, therefore, providing a seamless concrete application.

Reinforcement Objective

To reduce plastic, settlement and drying shrinkage cracking that occurs prior to the initial set.

Physical Properties

Density	4,517 lb/cu yd (2,680 kg/cu m)
Modulus of Elasticity	10,000 ksi (72 GPa)
Tensile Strength	250 ksi (1,700 MPa)
Length	0.75 in (19 mm)
Softening Point	1580°F (860°C)
Material	Alkali Resistant Glass*
Form	Assembled Roving
Chemical Resistance	Very High
Electrical Conductivity	Very Low

* Our fibers are manufactured with high Zirconium content in compliance with ASTM C1666 / C1666M-07 and EN 15422, and under the recommendation of PCI and GRCA.

Compliance & Certification

- ASTM C1666 / C1666M-07 Standard Specification for Alkali Resistant (AR) Glass Fiber for GFRC and Fiber-Reinforced Concrete & Cement
- European Directive 99/45/EC, 67/548/EEC, and their latest amendment
- Manufactured under a Quality Management System approved to ISO 9001
- The actual performance of MOBILE-MESH fibers is subject of independent assessment and approval in Germany (Zulassung N° Z-3.72.1731)

Applications

MOBILE-MESH is used in Glass Reinforced Cement (GRC) and can be easily added into a volumetric ready mix concrete truck with the help of a FORTA patented fiber dispenser. This process requires no extensive equipment changes - making it a simple and easy investment to add long-term value to your concrete.

Performance Benefits

- Reduce shrinkage cracking
- Long term durability of concrete
- Increases chemical resistance (i.e. deicing products)
- Improves freeze/thaw resistance
- Extends serviceability of concrete
- Will not rot or corrode
- Unaffected by UV radiation
- Excellent compatibility with cement matrix
- Excellent mixing and workability even at high dosages
- Fibers not visible on the surface
- Does not float or sink in concrete
- Does not entrap air
- Excellent unwinding & easy chopping

Recommended Dosage

MOBILE-MESH roving bobbins are chopped-on-demand with a FORTA patented Rover fiber dispenser. The recommended dosage in premix GRC is 1.0 to 1.5 lb/cu yd of GRC, depending on application and desired performance. Contact FORTA for design assistance and dosage recommendations.

Packaging and Storage

MOBILE-MESH roving bobbins are protected by a shrink-wrap polythene film, which is opened at the top and should not be removed when the product is in use. Rovings are packed on pallets either with or without boxes. MOBILE-MESH roving bobbins should be stored away from heat and moisture, and in their original packaging. Optimum conditions are temperatures between 60 and 95°F (15 and 35°C) and humidity between 35% and 65%. If the product is stored at lower temperatures it is advisable to condition it at working temperature for at least 24 hours before use, to prevent condensation.

	Domestic	International
Bobbins	42 lb	19 kg
Pallets	48 bobbins	48 bobbins

Additional Information

Additional information such as the Safety Data Sheet, Certifications, videos and other literature can be found on the forta-ferro.com website. The website also features Project Profiles that show the many applications and benefits FORTA products first-hand.

Limited Warranty

FORTA® Products are warranted to be free of defects in material and will meet all published physical properties as set forth herein. EXCEPT FOR THE EXPRESS LIMITED WARRANTY SET FORTH HEREIN, NEITHER FORTA NOR ANY PERSON ON FORTA'S BEHALF HAS MADE OR MAKES ANY EXPRESS OR IMPLIED REPRESENTATION OR WARRANTY WHATSOEVER, EITHER ORAL OR WRITTEN, INCLUDING ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, OR NON-INFRINGEMENT, WHETHER ARISING BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, ALL OF WHICH ARE EXPRESSLY DISCLAIMED.

The exclusive remedy for defective product is outlined in FORTA's Standard Terms and Conditions of Sale, available upon request. CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.

FORTA reserves the right to change the features and specifications of its products without prior notice.

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