



AR GLASS FIBER

## 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

<b>Material</b>	Alkali Resistant Glass*
<b>Form</b>	Pre-Chopped
<b>Length</b>	0.5 in (13 mm)
<b>Density</b>	4,517 lb/cu yd (2,680 kg/cu m)
<b>Modulus of Elasticity</b>	10,000 ksi (72 GPa)
<b>Tensile Strength</b>	250 ksi (1,700 MPa)
<b>Softening Point</b>	1580°F (860°C)
<b>Chemical Resistance</b>	Very High
<b>Electrical Conductivity</b>	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

## Recommended Dosage

MOBILE-MESH fibers are incorporated directly into the volumetric ready mix concrete truck with the specially designed FORTA Ranger dispensing system. Use of the Ranger system assures trouble-free and equal dispersion of the fiber in the mix. 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**

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MOBILE-MESH pre-chopped fibers are supplied in convenient 28.66 lb (13 kg) bags.

## **Additional Information**

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

## **Limited Warranty**

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FORTA® Products are warranted to be free of defects in material and workmanship and will meet all published physical properties as set forth herein. FORTA DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. NO AGENT OR EMPLOYEE OF FORTA IS AUTHORIZED TO VARY THE TERMS OF THIS WARRANTY NOTICE.

The exclusive remedy for defective Product shall be a replacement of Product, a refund of the purchase price, or repair, at FORTA's sole discretion. CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED.

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

*MOBILE-MESH™ can be purchased from FORTA or an authorized FORTA® products distributor, dealer or representative.*

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