



# MIGHTY-MONO<sup>®</sup>

## FACT-DATA<sup>®</sup>

### MANUFACTURER

FORTA CORPORATION, 100 FORTA Drive, Grove City, PA, U.S.A., 16127-6399  
TELEPHONE: 1-800-245-0306, (724) 458-5221; FAX: (724) 458-8331; www.fortacorp.com

### GENERAL DESCRIPTION

FORTA<sup>®</sup> Mighty-Mono<sup>®</sup> is an **easy to finish**, fully oriented, 100% virgin homopolymer polypropylene monofilament fibrous reinforcement. This fiber offers long term durability, and **increased impact resistance**. FORTA<sup>®</sup> Mighty-Mono<sup>®</sup> is used to reduce plastic and settlement shrinkage. Non-corrosive, non-magnetic, chemically inert, and **100% Alkali Proof!**

### APPLICATIONS

FORTA<sup>®</sup> Mighty-Mono<sup>®</sup> is primarily used in concrete applications such as slab-on-grade, overlays/toppings, curbs, driveways, sidewalks, basement floors, garage floors, and colored concrete, where the objective is to control plastic shrinkage cracking while improving basic durability properties. **Requires No Mix Design or Placement Changes!**

### INSTALLATION

Recommended dosage rate of FORTA<sup>®</sup> Mighty-Mono<sup>®</sup> is **1.0 lbs. per cubic yard (0.6 kg. per cubic meter)** of concrete added directly to the concrete mixing system during, or after, the batching of the other ingredients and mixed at the time and speed recommended by the mixer manufacturer (usually four to five minutes).

### PHYSICAL PROPERTIES

Materials.....Virgin Homopolymer Polypropylene  
Form.....Monofilament Fiber  
Specific Gravity.....0.91  
Tensile Strength.....90-110 ksi. (620-758 MPa)  
Length.....1/4" (6mm), 1/2" (13mm), 3/4" (19mm)

Color.....White  
Acid/Alkali Resistance....Excellent  
Absorption.....Nil  
Compliance.....A.S.T.M. C-1116

### AVAILABILITY

FORTA<sup>®</sup> Mighty-Mono<sup>®</sup> can be purchased from FORTA Corporation or an authorized FORTA<sup>®</sup> products distributor, dealer or representative. Orders are shipped within 24 hours by small package services, commercial carrier, or air freight.

### PACKAGING

**DOMESTIC**  
Bags.....1.0 Pounds  
Cartons.....40 Bags  
Pallets.....16 Cartons/640 Bags

**INTERNATIONAL**  
0.6 kg.  
30 Bags  
12 Cartons/360 Bags

### WARRANTY

FORTA<sup>®</sup> Mighty-Mono<sup>®</sup> is warranted to be free of defects and to meet all quality control standards set by the manufacturer. FORTA Corporation has no control over the design, production, placement or testing of the concrete products in which FORTA<sup>®</sup> Mighty-Mono<sup>®</sup> fiber is incorporated, therefore FORTA Corporation assumes no responsibility for the end products.

# MIGHTY-MONO®

FORTA Corporation's technical recommendations regarding synthetic fiber characteristics are based on years of engineering research and scores of projects. FORTA has developed a simple "4-C's" formula to help the specifier choose the right fiber for any project application. By making a decision with each of the FORTA® "4-C's" categories – **C**onfiguration, **C**hemistry, **C**ontents, and **C**orrect Length—specifiers are assured of obtaining the desired fiber performance level for a given project. The following 4-C's Formula Specification has been prepared to accommodate the stated reinforcement objective for this FORTA product grade.

**REINFORCEMENT OBJECTIVE:** To inhibit concrete cracking caused by plastic and settlement shrinkage that occurs prior to initial set.

**DIVISION – CONCRETE**

**SECTION – CONCRETE REINFORCEMENT**

**SUB-SECTION – SYNTHETIC FIBROUS REINFORCEMENT**

**Synthetic fibrous reinforcement shall be used in the areas denoted in plans, and shall comply with the following fiber characteristics:**

- 1. Configuration – Fiber shall be in monofilament form.**
- 2. Chemistry – Fiber shall be made of 100% virgin materials in the form of fully-oriented polypropylene.**
- 3. Contents – Fiber shall be used at a minimum dosage rate of 1.0 pounds per cubic yard of concrete (0.6 kg. per cubic meter of concrete).**
- 4. Correct Length – Fiber Length shall be a minimum of 3/4" (19mm).**

**Compliance:** Fibers shall comply with A.S.T.M. C-1116 "Standard Specification for Fiber Reinforced Concrete and Shotcrete" and applicable national building code. The approved product is FORTA® Mighty-Mono® as manufactured by FORTA Corporation, Grove City, PA, U.S.A. Phone: 1-800-245-0306 or 1-724-458-5221; Fax: 1-724-458-8331.

**FORTA Corporation**

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