



FACT-DATA®

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.forta-ferro.com

GENERAL DESCRIPTION

FORTA® ULTRA-LITE™ is a specially-treated, 100% virgin homopolymer polypropylene monofilament fiber that provides unique suspension characteristics in a variety of cementitious mixes and applications. Due to the special patent-pending fiber treatment, FORTA® ULTRA-LITE™ offers valuable suspension capabilities to gasified or aerated cementitious products, acting as a stabilizing and cohesive agent in very flowable lightweight mixes. In addition, FORTA® ULTRA-LITE™ contributes considerable reductions of plastic and settlement shrinkage that are common to these mixes and applications.

APPLICATIONS

FORTA® ULTRA-LITE™ can be used in any air-entrained or lightweight cementitious mix where a reduction in mix separation and segregation and reduced shrinkage characteristics are desirable. FORTA® ULTRA-LITE™ fiber-reinforced mixes may be placed horizontally or vertically, and above or below ground, and used in a wide variety of application areas, such as slabs, shotcrete, mines, tunnels, site-cast, and precast products.

INSTALLATION

Recommended dosage rate of FORTA® ULTRA-LITE™ is **3.5 lbs. per cubic yard (2.1 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

Material.....	Virgin Homopolymer Polypropylene	Color.....	White
Form.....	Monofilament Fiber	Alkali/Chemical Resistance...	Inert
Specific Gravity.....	1.0 in Treated Form	Absorption.....	Nil
Tensile Strength.....	83-96 ksi. (570-660 MPa)	Compliance.....	A.S.T.M. C-1116
Length.....	1/2" (13mm)		

AVAILABILITY

FORTA® ULTRA-LITE™ can be purchased from FORTA Corporation or an authorized FORTA® products distributor, dealer or representative. Orders are shipped within 24 hours by small package services, commercial carrier, or air freight.

PACKAGING

	DOMESTIC	INTERNATIONAL
Bags.....	3.5 Pounds	0.6 kg.
Cartons.....	12 Bags (42 lbs.)	30 Bags (18 kg.)
Pallets.....	16 Cartons/192 Bags (672 lbs.)	12 Cartons/360 Bags (216 kg.)

WARRANTY

FORTA® products are warranted to be free of defects in material and meet all quality control standards set by the manufacturer. FORTA Corporation specifically disclaims all other warranties, express or implied. The exclusive remedy for defective product shall be to replace the product or refund the purchase price. No agent or employee of this company is authorized to vary the terms of this warranty notice. FORTA Corporation has no control over the design, production, placement, or testing of the concrete products in which FORTA® products are incorporated, and therefore FORTA Corporation disclaims liability for the end product.

FORTA Corporation's technical recommendations regarding synthetic fiber characteristics are based on years of engineering research and scores of concrete projects. FORTA[®] has developed a simple "4-C's" formula to help the specifier choose the right fiber for any concrete 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 create a material suspension and mix stabilization, and 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 fine-diameter monofilament form.
2. **Chemistry** – Fiber shall be made of 100% virgin materials in the form of specially-treated, fully-oriented polypropylene.
3. **Contents** – Fiber shall be used at a minimum dosage rate of 3.5 pounds per cubic yard of concrete (2.1 kg. per cubic meter of concrete).
4. **Correct Length** – Fiber Length shall be 1/2" (13mm).

Compliance: Fibers shall comply with A.S.T.M. C-1116 "Standard Specification for Fiber Reinforced Concrete and Shotcrete". The approved product is FORTA[®] ULTRA-LITE™ 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.



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