



FACT-DATA®

MANUFACTURER

FORTA® CORPORATION, 100 Forta Drive, Grove City, PA, 16127-6399 U.S.A.
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GENERAL DESCRIPTION

FORTA-FI® is a high tensile strength synthetic fiber blend formulated to reinforce asphalt. By controlling thermal, reflective and fatigue cracking, as well as rutting, FORTA-FI® provides the benefit of immediate cost savings through reduced asphalt thickness or extended asphalt life, or both. The proprietary blend contains aramid and polyolefin fibers and other materials, known for their strength, durability, and binding properties.

APPLICATIONS

FORTA-FI® is designed to three-dimensionally reinforce all asphalt mixtures. By controlling thermal, reflective and fatigue cracking, as well as rutting, FORTA-FI® is a cost-effective way to improve the durability and longevity of a wide variety of asphalt applications. FORTA-FI® may be used in all asphalt pavements. Specific application areas include airports, streets, roadways, commercial and industrial parking lots, and residential driveways.

INSTALLATION

FORTA-FI® mixes well in both batch plants and drum plants at all production speeds. It is added to the mixture at any point in the mixing process after the fines collection and before the addition of liquid asphalt. While the fibers disperse uniformly and completely in seconds, it's best to leave as much mixing time as is practical within your typical mixing process.

PHYSICAL PROPERTIES

Materials.....	Polyolefin/Aramid	Length.....	3/4" (19mm)
Form.....	Twisted Fibrillated & Monofilament Fibers	Color.....	Yellow, Black, Tan
Melt Temperature...	212°F/800°F (100°C/427°C)	Acid/Alkali Resistance..	Inert
Tensile Strength....	70,000 p.s.i./400,000 p.s.i.	Specific Gravity.....	0.91/1.44

AVAILABILITY

FORTA-FI® can be purchased from FORTA Corporation or an authorized FORTA® products distributor, dealer or representative. Orders can be shipped by small package services, commercial carrier or air freight.

PACKAGING

	<u>For US Short Ton</u>	<u>For Metric Ton</u>
Bags.....	1.0 Pound, (0.45Kg)	0.5 Kilograms
Cartons.....	35 Bags/Box	35 Bags/Box
Bulk Box.....	35 Lbs Loose in Box	17.5 Kgs Loose in Box
Pallets.....	16 Cartons/560 Bags	12 Cartons/210 Bags
Gaylord Pallet.....	700 Lbs/Pallet	320 Kgs/Pallet

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 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 three-dimensionally reinforce Hot Mix Asphalt pavements by controlling reflective cracking, shoving, rutting, and other stability-related problems.

DIVISION – ASPHALT
SECTION – ASPHALT REINFORCEMENT/MODIFIERS
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 a blend of twisted-bundle network fibers and high-strength monofilament fibers.
2. **Chemistry** – Fiber shall be made of aramid (monofilament) and polyolefin (twisted-bundle & monofilament) fibers and other materials, known for their strength, durability, and binding properties.
3. **Contents** – Fiber shall be used at a minimum dosage rate of 1.0 pounds per ton (0.5 Kg. per metric ton) of asphalt.
4. **Correct Length** – Fiber length shall be 3/4" (19mm) for surface-course mixes.

APPROVED PRODUCT: FORTA-FI® as manufactured by FORTA Corporation, Grove City, PA, U.S.A.
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