FORTA-FI™

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 family of three synthetic fiber blends formulated to reinforce Hot Mix Asphalt (HMA), Warm Mix Asphalt (WMA), and hot/cold Asphalt Patch (PAT). 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 blends contain 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 HMA, WMA and PAT asphalt applications. FORTA-FI may be used in overlays, surface or base and courses of asphalt pavements. Specific application areas include 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, while still in the bag, 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
Form……Twisted Fibrillated & Monofilament Fibers
Specific Gravity…..0.91/1.44
Tensile Strength….70,000 p.s.i./400,000 p.s.i.
Length……3/4" (19mm), 1-1/2" (38mm)
Color……Yellow, Black, Tan
Acid/Alkali Resistance…Inert
Melt Temperature……212°F / 800°F (100°C / 427°C)

AVAILABILITY
FORTA-FI 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

	For US Short Ton	For Metric Ton
Bags……	1.0 Pound, (0.45Kg)	0.5 Kilograms
Cartons……	40 Bags	35 Bags
Pallets……	16 Cartons/640 Bags	12 Cartons/420 Bags

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® Specification

FORTA-FI ™

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. **C**onfiguration – Fiber shall be a blend of twisted-bundle network fibers and high-strength monofilament fibers.
2. **C**hemistry – 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. **C**ontents – Fiber shall be used at a minimum dosage rate of 1.0 pounds per ton (0.5 Kg. per metric ton) of asphalt.
4. **C**orrect Length – Fiber length shall be 3/4" (19mm) for surface-course mixes. Longer 1-1/2" (38mm) fibers may be considered for larger-aggregate base mixes.

APPROVED PRODUCT: FORTA-FI 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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