

# FORTA-FI®

The Sustainability Solution for Asphalt

## What is FORTA-FI®?

FORTA® Corporation's first patent for asphalt-reinforcing fibers was in 1982, with two additional patents in 2012, and our products have been successfully used in projects around the world. Over that time, we have continued to fund additional scientific research to optimize our products and to better quantify the value provided by these products. Our 2008 research project was conducted by Arizona State University and showed remarkable results.

The secret to reinforcing almost any construction material is historically simple: add fibers throughout the material to add strength, toughness, and durability. FORTA® capitalizes on this three-dimensional certainty by providing strong and chemically-inert synthetic fibers and materials — FORTA-FI® — that mix quickly and distribute uniformly in asphalt mixtures. Once distributed, FORTA-FI® fibers act as reinforcement in both conventional and modified asphalt mixtures, offering improvements to stability-related problems often occurring in unreinforced asphalt pavements.

Though the millions of distributed fibers are easily detectable in the asphalt mixture, they become virtually invisible on the pavement surface, and they require no modifications to normal lay-down and compaction practices. 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 Hot Mix Asphalt (HMA), Warm Mix Asphalt (WMA) and Hot/Cold Patch (PAT) applications. FORTA-FI® family of products are proprietary blends containing aramid and polyolefin fibers and other materials known for their strength, durability, and binding properties.

Available in three proprietary blends containing aramid and polyolefin fibers and other materials packaged in polyethylene bags.

## HMA Blend

for Hot Mix Asphalt

- Designed for working temperatures of 250°F - 375°F (121°C - 190°C)
- Mixes in drum plants at any speed or batch plants
- Distributes uniformly and completely
- 3/4" (19mm) fiber length



## WMA Blend

for Warm Mix Asphalt

- Designed for working temperatures of 212°F (100°C) and higher
- Mixes in drum plants at any speed or batch plants
- Distributes uniformly and completely
- 3/4" (19mm) fiber length
- Formulated for all foaming methods



## PAT Blend

for Hot/Cold Patch

- Designed for any working temperature
- Formulated for high percentages of solubles
- May be added in plant or directly in rejuvenated material on site
- 3/4" (19mm) fiber length

