



POLYAMIDE BLEND

Description

Pave-Aid is a synthetic fiber blend formulated to reinforce 100% recycled asphalt pavement (RAP) as well as cold mix asphalt. Pave-Aid significantly improves the rutting resistance of asphalt mixtures containing 100% RAP by providing stiffness to the typically low modulus material.

Reinforcement Objective

To three-dimensionally reinforce 100% recycled asphalt pavement (RAP) and cold mix asphalt by reducing rutting and controlling thermal, reflective, and fatigue cracking.

Physical Properties

Fiber	Para-Aramid	Polyolefin	Polyamide
Specific Gravity	1.44	0.91	1.14
Density	2,427 lb/cu yd (1,440 kg/cu m)	1,534 lb/cu yd (910 kg/cu m)	1,159 lb/cu yd (688 kg/cu m)
Tensile Strength	400 ksi (2,758 MPa)	N/A ¹	140 ksi (965 MPa)
Operating Temperature	-100 – 800°F (-73 – 427°C)	N/A ¹	-22 – 491°F (-30 – 255°C)
Length	0.75 in (19 mm)	0.75 in (19 mm)	0.75 in (19 mm)
Form	Monofilament ²	Serrated	Monofilament
Color	Yellow	Black	White
Acid/Alkali Resistance	Inert	Inert	Inert

1. Fibers will melt or become plastically deformed during asphalt mix production.

2. Strands become fibrillated during asphalt mix production.

Addition & Mixing

Pave-Aid mixes well in central plants without compromising production. The fibers are added at a rate of one (1) pound of fibers per one (1) ton of asphalt mix. The fibers are added during asphalt production either manually or with a fiber delivery system. FORTA[®] Delivery Systems, such as the Voyager, The Big Shot and The Little Shot, offer effective delivery methods for a variety of pavement applications. Some feeders automatically track and record the amount of fiber fed into the batch for quality assurance.

Applications

Pave-Aid fiber blend is added directly to the asphalt mix during production creating a three-dimensional material reinforcement throughout the entire pavement layer. This reinforcement reduces rutting as well as help control thermal, reflective, and fatigue cracking. Pave-Aid is a cost effective way to improve the durability and longevity of 100% RAP applications such as low volume roadways, shoulders, and widening & leveling courses. Pave-Aid is an innovative way to help transportation agencies achieve sustainability objectives by increasing the longevity of roadways paved with RAP.

Performance Benefits

- Extreme durability
- Life cycle cost reduction
- No change to construction process or JMF
- Extend pavement life
- Provide 3-dimensional reinforcement against pavement distresses

Packaging

	US Short Ton	Metric Ton
Bags	1.0 lb	0.5 kg
Cartons	35 bags	35 bags
Bulk Carton	35 lb, loose in carton	16 kg, loose in carton
Pallets	16 cartons/560 bags	12 cartons/210 bags (standard cont.) 28 cartons/980 bags (high cube cont.)
Gaylord Pallets	600 lb	273 kg

Additional Information

Additional information such as the Safety Data Sheet, Certifications, videos and other literature can be found on the forta-fi.com website. The website also features Project Profiles that show the many applications and benefits of Pave-Aid and other fibers for asphalt first-hand.

Limited Warranty

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