WHO IS PACIFIC GEOSOURCE

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Mike Hass

Product Manager

- Civil Engineering Degree-Oregon State University
- 2005 1st Team All-American
- 5 Years NFL
- 2000 Fiber Projects
- Drain, OR, Salt Lake City, St. Louis, MO

900 LB ASPHALT SLAB
REINFORCED WITH FORTA FI

Fiber 3-D Reinforcement

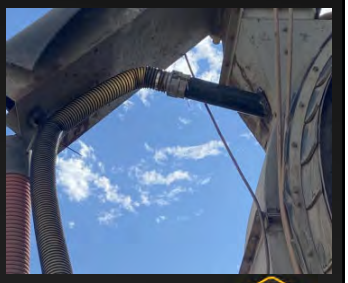
- Increased Cracking Resistance
- Increased Rutting Resistance
- Increased Pavement Lifespan

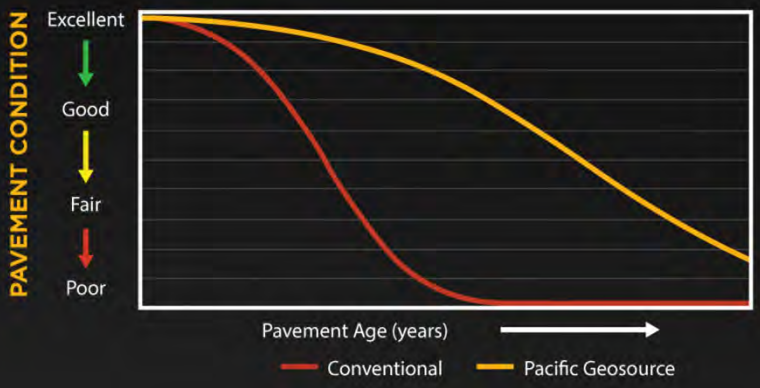
Why is Asphalt Reinforcement Critical?

- Stronger, Longer-Lasting Asphalt
  - High-Tensile Fibers Help Disperse Loading
  - Minimize Strain Levels
- Mitigate Top-Down and Bottom-Up Fatigue Cracking
  - Extend Pavement Life
  - Prevent Potholes, Increase Safety
  - Reduced Future Maintenance (Crack Seal, Patching, etc.)
  - Mitigate Water Intrusion
- Resist Lateral Flow
  - Minimize Rutting, Surface Depression, and Ponding Water
- Mitigate Environmental/Thermal Related Distress
  - Minimize Transverse Cracks
  - Minimize Crack Widths, Water Intrusion

Easy to Use

- **1lb./Ton**
  Consistent proven dosage rate.
- **Batch or Drum Plants**
- **No Changes to Production or Mix Design**
  HMA, WMA, FAA
- **Easier to Compact, 100% Recyclable**
- **Automated Fiber Feeding**
  Blue tooth controlled, easy to use





Lancaster, CA

LA County

BEFORE

AFTER

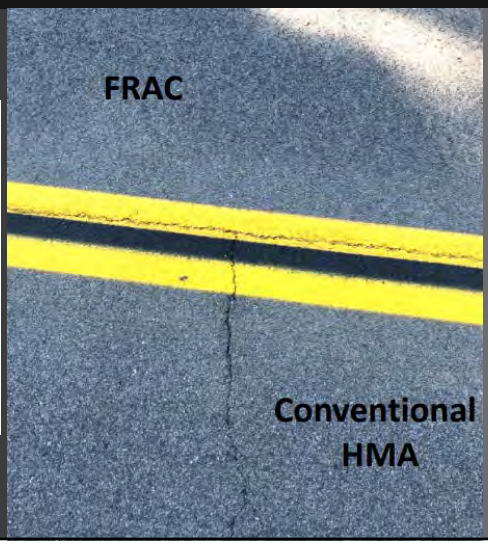
Field Cracking Study

Davenport Rd.-LA County

Inspection Number	Distress	Severity	EB (LF)	WB (LF)	% Difference (EB vs WB)
1	Long. & Trans. Cracking	Low	57	38	33.3%
2	Long. & Trans. Cracking	Low	25	13	48.0%
3	Long. & Trans. Cracking	Low	157	39	75.2%
4	Long. & Trans. Cracking	Low	17	21	-23.5%
5	Long. & Trans. Cracking	Low	89	8	91.0%
6	Long. & Trans. Cracking	N/A	0	0	N/A
7	Long. & Trans. Cracking	N/A	0	0	N/A
8	Long. & Trans. Cracking	Low	24	5	79.2%
9	Long. & Trans. Cracking	Low	15	0	100.0%
10	Long. & Trans. Cracking	Low	39	0	100.0%
11	Long. & Trans. Cracking	Low	111	17	84.7%
		Totals:	534	141	73.6%

Table 2

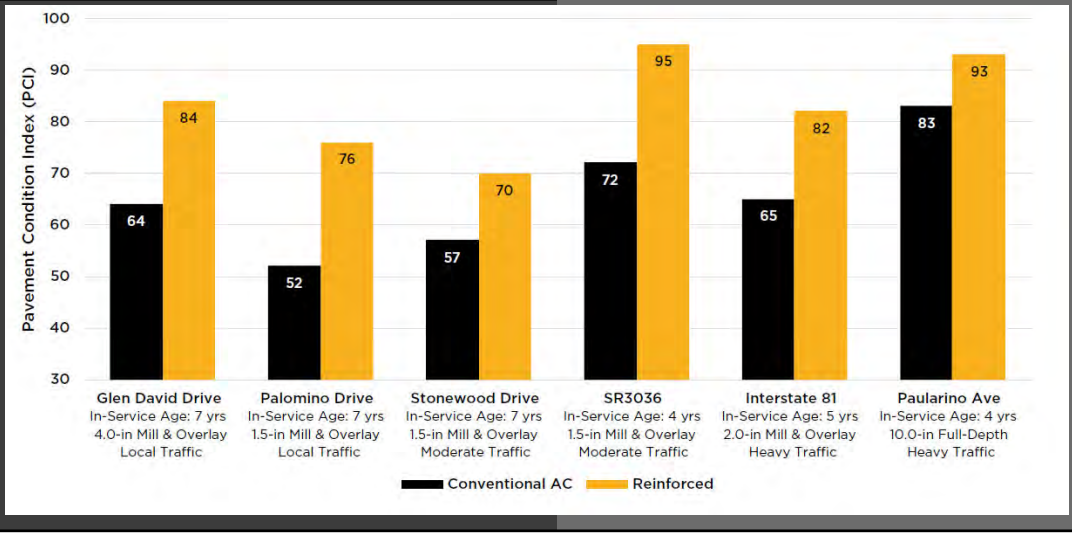
From 2020 Final Report by Pavement Engineering Inc.



74% Less Cracking in FORTA-FI Reinforced lane

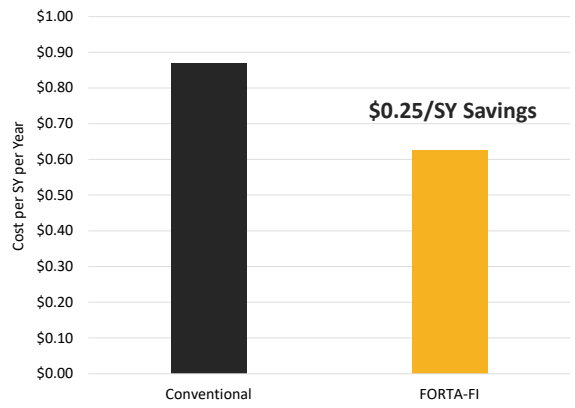
PCI Comparisons

Township of Pine, PA



PCI Comparisons

Township of Pine, PA

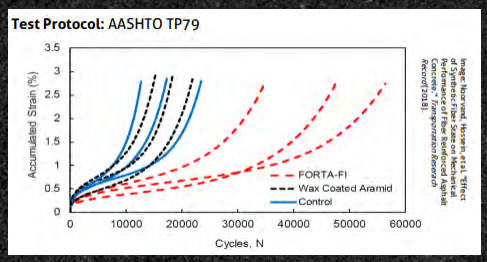


HMA = 10 yrs to Resurfacing
FRAC = 16 yrs to Resurfacing

Costs: HMA $80/ton, FRAC $92/ton

2'' O'lay: 1 ton=9.2 SY

28% Cost Savings on Overlays



WE'RE PROUD

That what we do,
and the solutions we provide
are made right here in the

USA