

ARMOUR YOUR ASPHALT



**IMPROVE
RUT RESISTANCE**
AND KEEP THE COMMERCIAL
CONVOY ROLLING.

Advanced Aramid Fiber Technology for Asphalt Concrete.



ACE FIBER

WHEN PERFORMANCE MATTERS.



layfieldgroup.com | 1.800.377.8404

High Performance Fiber Reinforced Asphalt Concrete (FRAC)

Lab Test Description	ACE Fiber™ Results
Lab - TTI Overlay Tester <i>Thermal/Reflective Cracking</i>	+140%
Lab - DC(T) Test <i>Low Temperature Fracture Energy</i>	+21%
Lab - IDT Strength Test <i>Low Temperature Strength @ Critical Crack Temperature</i>	+10%
Lab - IDT Creep Compliance Test <i>Determine Low Temperature Critical Cracking Value (Bottom PG Number)</i>	-4.3°C (-1 PG)
Lab - Hamburg Rut Test <i>Determine Rut Resistance of Various Asphalt Mixes (Top PG Number)</i>	PG64-22 (w/ACE) =PG70-22 (+1 PG)
Lab - Hamburg Rut Test <i>Determine Rut Resistance of Various Asphalt Mixes (Top PG Number)</i>	PG70-22 (w/ACE) =PG76-22 (+1 PG)

Field Test Description	ACE Fiber™ Results
Field - APLT - Static Creep <i>Measure Plastic Deformation of In-Place Asphalt (Rut)</i>	+121% Rebound Ratio
Field - APLT - Elastic Modulus <i>Measure Elastic Modulus of In-Place Asphalt w/ACE Fiber</i>	+200%
Field - APLT - SN Layer Coefficient <i>SN Layer Coefficient, a1 Back Calculate SN Layer Coefficient, a1 using Measured Elastic Modulus</i>	+43%
Field - APLT - EASL Prediction <i>ESAL Prediction Using ASSHTO 93 Calculate Increase ESAL Capacity on In-Place Asphalt w/ACE Fiber</i>	+500%

ACE Fiber™ Value Proposition Examples

Adding ACE Fiber™ to an asphalt concrete mix design, an engineer, owner or agency can expect the following Value-Added Results:

1. **ADD** tremendous amounts of strength and durability at **VERY LITTLE COST**
2. **ADD** some strength and durability at **NO COST**
3. **SAVE COSTS** in-lieu of traditional methods (Polymer Modified Binder or Interlayers)

Increase Durability of Overlay

1.5" asphalt overlay with ACE
Service Life increase: >50%
Cost Increase: +/- \$1.00 per SY

Strengthen Light Duty Pavements

3.0" light duty asphalt with ACE
ESAL increase: >160%
Cost Increase: +/- \$2.00 per SY

In-lieu of Reflective Crack Interlayers

1.5" asphalt overlay with ACE
Service Life increase: >50%
Cost Savings: +/- \$1-10 per SY

Optimize Heavy Duty Pavements

5.0" heavy duty asphalt with ACE
 (In-Lieu of 6" w/o ACE)
ESAL increase: >140%
Cost Neutral: +/- \$0.00 per SY

In-lieu of Polymer Modified Binder

1.5" asphalt overlay with ACE
Equal Service BUT Easier Lay Down
Cost Neutral: +/- \$0.00 per SY

Locally Distributed By:



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